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UNIVERSITY OF ILLINOIS

CATALOGUE

OF THE

University of Arkansas

TWENTY-EIGHTH EDITION

FAYETTEVILLE, ARKANSAS,

1900-1901

SCHEDULE OF RECITATIONS.

	1.	8:10	9:05.	2.	9:05	10.	3.	10	10:55.	4.	10:55	11:50.	5.	12:40	1:35.	6.	1:35	2:30.	7.	2:30	3:25.	8.	3:25	4:30.
FRESHMAN	Lat. 1 Eng. 1 Hist. 1 Chem. 1 Chem. 2 Biol. 1 Pedag. 1, 2, 3, 4 E. E. 1		M., W., F. T., Th., S. T., Th. T., Th. W., F. S. M., F. M., F.	Lat. 1 Eng. 1 Math. 1 Math. 2 Hist. 1 Geol. 3 Biol. 2		M., W., F. M., Th., S. T., W., F. Th., S. W., F.	Math. 1 Math. 1 Geol. 1 Biol. 1		T., Th., S. M., W., F. M., W., F. S. . . .	Greek 1 Math. 1 Physics 1 C. E. 8

CATALOGUE

OF THE

University of Arkansas

TWENTY-EIGHTH EDITION

FAYETTEVILLE, ARKANSAS,

1900-1901

PRESS OF
ARKANSAS DEMOCRAT CO
1901.

1901

JANUARY

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1902

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CALENDAR, 1901-1902.

FAYETTEVILLE.

1901.

September 18, Wednesday—First term begins.
September 18-21—Entrance examinations.
November 26, Thursday—Thanksgiving, a holiday.

1902.

January 24, Friday—First term examinations begin.
February 1, Saturday—First term ends.
February 3, Monday—Second term begins.
May 22, Thursday—Decoration day, a holiday.
May 30, Friday—Decoration day, a holiday.
June 5, Thursday—Second term examinations begin.
June 15, Sunday—Baccalaureate sermon.
June 19, Thursday—Annual commencement.

MEDICAL DEPARTMENT, LITTLE ROCK.

1901.

October 10, Thursday—Regular session begins.

1902.

April 10, Thursday—Session ends.

LAW DEPARTMENT, LITTLE ROCK.

1901.

October 1, Tuesday—Fall term begins.

1902.

January 31, Friday—Fall term ends.
February 3, Monday—Spring term begins.
May 30, Friday—Spring term ends.

BRANCH NORMAL COLLEGE, PINE BLUFF.

1901.

September 3, Tuesday—Session begins.

1902.

May 30, Friday—Session ends.

Arkansas University
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BOARD OF TRUSTEES.

His Excellency, JEFFERSON DAVIS, Governor of Arkansas ... .Little Rock.
HON. H. N. PHARR, First District .....La Grange.
HON. W. H. LANGFORD, Second District .....Pine Bluff.
HON. C. C. HAMBY, Third District .....Prescott.
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HON. J. C. MITCHELL, Fifth District .....Fayetteville.
HON. V. Y. COOK, Sixth District .....Elmo.

OFFICERS AND COMMITTEES OF THE BOARD.

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On Finance—Messrs. Cook, Stroup, Pharr.

On Branch Normal College—Governor Davis, Messrs. Stroup, Langford.

On Agricultural Department—Messrs. Pharr, Cook, Stroup.

On Mechanical Department—Messrs. Hamby, Mitchell, Langford.

On Arts Department—Messrs. Langford, Mitchell, Cook.

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On Teachers—Messrs. Pharr, Mitchell, Hamby, Langford.

BOARD OF CONTROL OF AGRICULTURAL EXPERIMENT STATION.

Committee on Agricultural Department, President of the University, Director of the Station.

FACULTY.

AT FAYETTEVILLE.

JOHN LEE BUCHANAN, A. M., LL. D.,
President,

ALBERT ERNEST MENKE, D. Sc., F. C. S., Ph. D.,
Professor of Chemistry and Physics.

JOHN CLINTON FUTRALL, M. A.
Professor of Ancient Languages.

GEORGE WESLEY DROKE, A. M.,
Professor of Mathematics and Astronomy.

JULIUS JAMES KNOCH, M. S., C. E.,
Professor of Civil Engineering.

WILLIAM NATHAN GLADSON, M. S., E. E., Ph. D.,
Professor of Electrical Engineering.

ALBERT HOMER PURDUE, A. B.,
Professor of Geology and Mineralogy and Curator of the Museum.

CLIFFORD LEWIS NEWMAN, B. S.,
Superintendent of Agriculture.

SIMON JAMES McLEAN, M. A., LL. B., Ph. D.,
Professor of Economics and Sociology.

JUNIUS JORDAN, A. M., LL. D.,
Professor of Philosophy and Pedagogics.

CHARLES EDWIN HOUGHTON, A. B., M. M. E.,
Professor of Mechanical Engineering and Superintendent of Mechanic Arts.

FRANK WELBORN PICKEL, A. B., M. Sc.,
Professor of Biology.

ALVIN FAYETTE LEWIS, A. M., Ph. D.,
Professor of History.

ERNEST WALKER, B. S. Agr.,
Professor of Horticulture.

WILLIAM ALEXANDER READ, Ph. D.,
Professor of English and Modern Languages.

EDGAR FINLEY SHANNON, B. A.,
Associate Professor of Ancient Languages.

BOLLING JAMES DUNN, A. M.,
Associate Professor of Mathematics.

PERCY HARGRAVES WALKER, M. S.,
Associate Professor of Chemistry and Physics.

COLBERT SEARLES, Ph. D.,
Associate Professor of English and Modern Languages.

*WILLIAM ALFRED CRAWFORD,
Principal of the Preparatory Department.

GEORGE ALBERT COLE, A. M.,
Acting Principal of the Preparatory Department.

GEORGE KARR SPENCER, Captain United States Army,
Professor of Military Science and Tactics, and Commandant.

INSTRUCTORS AND OFFICERS.

HADGIE BOOKER DAVIES, A. B.,
Adjunct Professor of English and Modern Languages.

BURTON NEILL WILSON, B. Sc., M. E.,
Adjunct Professor of Mechanical Engineering and Assistant Superintendent of Mechanic Arts.

WILLIAM ANDREW TREADWAY, B. E. E.,
Adjunct Professor of Electrical Engineering.

*MACK MARTIN, B. M. E.,
Assistant Superintendent of Mechanic Arts.

*CLARA EARLE, B. A.,
Instructor in English and Modern Languages.

NOTE. — Names, except that of the President, in the order of official seniority: (1) Professors, (2) Associate Professors, (3) other Instructors and Officers.

*Absent on leave.

ALLIE BUSH DEUPREE, M. A.,
Instructor in English and Modern Languages.

†E. L. BUSCH,
Musical Director.

†ELIZABETH BUSCH,
Piano.

ANNA HOOK EDMISTON,
Musical Director,

GERTRUDE CRAWFORD,
Instructor in Vocal Music.

*JENNY DELONEY RICE,
Director of the Art Department.

CHRISTINE SLOAN BREDIN,
Director of the Art Department.

.....
Instructor in Mathematics and Bookkeeping.

EMMA WILMER COLE, M. L. L.,
Instructor in History, Physiology and Latin.

MARY ANN DAVIS,
Instructor in English and History.

LINA REED, A. B.,
Instructor in English and Latin.

SUSIE HALL SPENCER, L. I.,
Instructor in Mathematics and Geography.

JENNIE WARD BOWMAN,
Instructor in Elocution and Physical Culture.

ROZE EMMALINE BENNETT, A. M.,
Instructor in Mathematics and History.

NAOMI JOSEPHINE WILLIAMS, A. M.,
Instructor in Latin and History.

JOBELLE HOLCOMB, A. B.,
Instructor in Latin and Mathematics.

†Resigned January 1, 1901.
*Absent on leave.

JAMES LINCOLN ROSS,
Instructor in Machine Shops and Forge.

VICTOR H. COCHRANE,
HAMPTON HUDGINS,
CARL L. SADLER,
} Class of 1901,
Assistant Instructors in Civil Engineering.

ADA PACE,
Librarian.

BURTON NEILL WILSON,
Superintendent of Grounds and Buildings.

JULIA WATKINS,
Superintendent of Dormitories.

JOHN GRISSOM,
Engineer.

AT LITTLE ROCK.

MEDICAL DEPARTMENT.

P. O. HOOPER, M. D.,
Emeritus Professor of the Practice of Medicine.

JAMES H. SOUTHALL, M. D.,
Emeritus Professor of the Practice of Medicine.

JAMES A. DIBRELL, M. D.,
Professor of General, Descriptive and Surgical Anatomy, and President of the Faculty.

EDWIN BENTLEY, M. D.,
Professor of the Principles and Practice of Surgery.

C. W. WATKINS, M. D.,
Professor of the Practice of Medicine.

L. P. GIBSON, M. D.,
Demonstrator of Anatomy.

LOUIS R. STARK, M. D.,
Professor of Gynecology.

E. R. DIBRELL, M. D.,
Professor of Physiology, Physical Diagnosis, and Clinical Medicine.

FRANK VINSONHALER, M. D.,
Professor of Ophthalmology and Otology.

T. N. ROBINSON, A. B., LL. B.,
Professor of Medical Chemistry and Toxicology.

W. H. MILLER, M. D.,
Professor of Obstetrics.

F. L. FRENCH, M. D.,
Professor of Materia Medica, Therapeutics, Hygiene and Botany.

E. E. MOSS, A. M., LL. B.,
Profesor of Legal Medicine.

CARLE E. BENTLEY, M. D.,
Professor of Clinical Surgery and Dermatology.

JAMES H. LENOW, M. D.,
Professor of Genito-Urinary Organs.

R. W. LINDSEY, M. D.,
W. P. ILLING, M. D.,
E. C. WITT, M. D.,
Special Clinical Lecturers.

ANDERSON WATKINS, M. D.,
Assistant Demonstrator of Anatomy.

WILLIAM A. SNODGRASS, M. D.,
Prosector of Anatomy.

F. L. FRENCH, M. D.,
Secretary of the Faculty, Little Rock, Ark.

LAW DEPARTMENT.

J. H. CARMICHAEL. LL. B.,
Dean.

T. N. ROBINSON, LL. B.,
Secretary.

(Complete list of Instructors and Lecturers on pages 137-138.)

AT PINE BLUFF.

BRANCH NORMAL COLLEGE.

NORMAL DEPARTMENT.

J. C. CORBIN, A. M., Ph. D.,
Principal.

JAMES C. SMITH, A. B.,
First Assistant.

THOMAS C. CHILDRESS, L. I.,
Second Assistant.

ANNA C. FREEMAN, L. I.,
Third Assistant.

LOUISA M. CORBIN,
Fourth Assistant.

MECHANICAL DEPARTMENT.

C. E. HOUGHTON, A. B., M. M. E.,
Superintendent.

W. S. HARRIS,
Assistant Superintendent.

E. K. BRALEY, B. M. E.,
Machine and Blacksmith Shops.

LORENZO ELLIS,
Engineer.

AT FAYETTEVILLE.

AGRICULTURAL EXPERIMENT STATION.

ROBERT LOVE BENNETT, M. S.,
Director.

ROBERT R. DINWIDDIE, M. D.,
Pathologist and Bacteriologist.

CLIFFORD LEWIS NEWMAN, B. S.,
Professor of Agriculture.

WILLIAM G. VINCENHELLER,
Pomologist.

ERNEST WALKER, B. S. Agr.,
Horticulturist and Entomologist.

JOHN FRANKLIN MOORE, B. S.,
Assistant Chemist.

GEORGE B. IRBY, B. A.,
Assistant Agriculturist at Newport.

STANDING COMMITTEES OF THE FACULTY.

The President of the University is ex-officio a member of all standing committees.

1. On Discipline—Professors Lewis, Haughton, Pickel.
2. On Doubtful Cases—Professors Droke, Knoch, Cole.
3. On Classifications and Petitions—Professors Purdue, Shannon.
4. On Accredited Schools—Professors Jordan, Menke, Dunn.
5. On Library—Professors Read, McLean, P. H. Walker.
6. On Dormitories—Professors Gladson, Newman, E. Walker
7. On Athletics—Professors Futrall, Searles.
8. On Chapel—The President and Commandant.

The University and the State.

The University is at the head of the public educational system of the State of Arkansas. It seeks to foster the higher educational interests of the State, broadly and generously interpreted, and to make provision for the demands of advanced scholarship in as many lines as its means will permit. It is the aim of its Faculty and Board of Trustees, from year to year, to bring it into still closer articulation with the public schools of the State, and in connection with them to afford to all the youth of either sex ample facilities for liberal education in literature, science and the industrial arts, and for the professional studies.

Through the aid received from the United States and from the State of Arkansas, the University is enabled to offer to its students free tuition, except in the studies of Law, Medicine and Music, and to open wide her doors to all seekers of learning.

The institution was established by virtue of an act of Congress donating public lands for educational purposes, and in accordance with an act of the General Assembly of the State of Arkansas.

LOCATION.

The University, except its Medical and Law Schools and Branch Normal College, is located at Fayetteville, Washington County, Ark. Situated in the heart of the Ozark Mountains, it is more than 1,500

feet above the sea level. The location is thought to be unsurpassed in salubrity of climate, in beauty of surrounding scenery, in variety and perfection of agricultural and horticultural productions, and in the morality and intelligence of its people.

Students may reach Fayetteville from both the north and the south by the Texas branch of the St. Louis and San Francisco Railroad, which has three trains daily each way, and various connections with other roads both north and south.

BUILDINGS.

UNIVERSITY HALL.

This is a brick structure with cut stone trimmings and a stone foundation. It is four stories in height above the basement. It consists of a front building 214 feet in length, and two wings, each 124 feet in depth, the whole forming three sides of a quadrangle. This building contains a large number of class rooms, Chapel, Library and Reading Room, separate Study Halls for the boys and girls of the Preparatory Department, Armory, Magazine, Band Room, Laboratories for Engineering, Biology and Geology, Music and Art Rooms, President's and Commandant's Offices, Natural History Museum, Examination Hall, Literary Society Halls, Toilet Rooms, etc., in all seventy rooms, together with broad corridors and stairways. The building is heated by steam, lighted by electricity, and supplied with water from the city waterworks.

SCIENCE HALL.

This building, designed especially for the departments of Chemistry and Physics, is a substantial two-story brick building, 50 by 90 feet. The basement is fitted up with suitable furnaces for assaying and metallurgical work. On the first floor are the lecture rooms of the two departments, the physical laboratory and storerooms, and also the private laboratory of the professor in charge. On the second floor are the chemical laboratories, including a laboratory for general chemistry, a laboratory for qualitative analysis, and a laboratory devoted to quantitative analysis; also a storeroom for chemical supplies, a weighing room, and a hallway. The building is supplied with gas, water, and steam heat, and with modern appliances for technical work. It will accommodate about 150 students.

BUCHANAN HALL.

This is a substantial and handsome brick building, three stories high, and containing over forty rooms. It is favorably located, with a view to the health of the occupants, and convenience of access to University Hall. The rooms are large, well ventilated and lighted, and open into broad corridors extending lengthwise through the building. From a wide veranda in front, there are three entrances to the building. There are also two rear entrances, and on the third floor a suite of rooms fitted up for an Infirmary. Through the generosity of the ladies of Fayetteville, this suite of rooms has been thoroughly equipped. By the aid

of the superintendent and the liberality of the students and citizens a handsome suite of parlors has been tastefully and elegantly furnished. In the rear of the Hall a brick building has been erected which furnishes bath and toilet rooms, supplied with cold and hot water.

AGRICULTURAL BUILDINGS.

The principal buildings of the Agricultural Experiment Station are of brick, one story in height. They contain several offices, the laboratories of the Station, the Station Museum, and several commodious storerooms. Belonging to the Department of Agriculture are a large barn, stock shed, dairy house, and other necessary outbuildings. During the past year a handsome cottage residence was erected for the manager of the University farm.

HORTICULTURAL BUILDING.

This structure is 60 by 23 feet, is heated by steam, and supplied with improved ventilating apparatus and other modern conveniences. Attached to this is a building 24 by 30 feet, which is designed to be used as a laboratory for plant study. The equipment thus provided furnishes much-needed facilities for study and research to all persons interested in plant life, and especially to students of horticulture.

The building is located north of University Hall, and, together with the improvement of the adjacent grounds, adds much to the sightliness of that part of the campus.

THE SHOPS.

The shop building is of brick with stone foundation and iron roof, and has a floor space of 8,000 square feet. It contains a wood room 80 by 40, a foundry 35 by 40, forge shops 32 by 40, a machine shop 40 by 48, and a boiler room 32 by 35. There is also a brick building 15 by 35, divided into two rooms, without communication, one of which is used for an office and the other for the storage of oil and paint; also a frame coal bin 12 by 30, covered with iron and accessible to teams from either side. These buildings are heated by steam and provided with water from the city waterworks and with fire hose. They will accommodate about 100 students in class work at one time. The legislature during the present session has made an appropriation for the erection of an important addition to the shop buildings.

THE LIBRARY.

The Library occupies the north wing of the main building, second floor. It now contains about 8,000 volumes, with numerous pamphlets, maps, charts, etc. Shelves are provided for 14,000 volumes, with room for expansion. There are also special libraries belonging to various departments comprising near 1,800 volumes.

The privileges of the Library, under proper regulations, are free to all students.

The Dewey decimal system of classification and the Cutter book-numbers are used, thereby simplify-

ing the circulation of books and the general care of the Library.

The leading high class periodicals (including magazines, reviews and various technical monthlies) are regularly taken, and are bound as they accumulate. This vast fund of current literature is rendered more useful and accessible by "Poole's Complete Index" to periodic literature from 1802 to the present time. A number of daily and weekly papers also come to the Library.

Among the works of general reference in the Library are all the best encyclopedias and dictionaries.

The card catalogue in preparation will greatly facilitate reference and will also greatly increase the usefulness and popularity of the Library.

THE ARMORY.

The Armory is a large, well lighted room, 60 by 80 feet, occupying the entire basement of the north wing of the main building. It is substantially fitted up with arm racks, compartments for equipments, and other conveniences. Two adjacent rooms are assigned to the Military Department, and are used as band-room and storeroom.

The equipment of the department consists of 300 Springfield Cadet Rifles, of the same model as those used at the United States Military Academy at West Point, 300 sets of infantry equipments, twenty-seven cadet swords (West Point pattern), National colors, flags, signal equipment, ammunition, etc., and a superior set of band instruments.

The arms and equipments are furnished the University by the general government. The other equipments have been purchased by the University and belong to the Military Department. The equipment is sufficient for a battalion of 400 cadets.

THE MUSEUM.

A. H. PURDUE, CURATOR.

The Museum occupies the fourth floor of the south wing of the main building. Large additions have recently been made to its equipment with a view to facilitate instruction in geology and biology and also to make it of increased interest to the visiting public. That portion of the collection suitable for display is arranged in glass cases, while the working collection is in drawers. Four new sloping-top cases with drawers beneath have recently been added, thus affording space for several thousand specimens.

Relief Maps. For illustration in geology and general interest to the public, there have been placed in the Museum the following relief maps: Geological relief maps of the State of Arkansas, Colorado Canon, Central Tennessee and the United States; a convex relief map of the United States on a section of a globe sixteen feet in diameter; a relief map of Carmel Bay, California; Ice Spring Craters, Utah; Yosemite Valley, Palestine, Mount Vesuvius, the State of California, and San Francisco Peninsula. Other maps are in preparation at the University.

The Mineral Collection. The mineral collection contains about 2,000 specimens, representing the different mineral groups. Many of these specimens are displayed in cases.

The Petrographic Collection. The most valuable part of this collection consists of the series furnished by the United States Geological Survey, representing sedimentary, igneous and metamorphic rocks. Besides this, there is a valuable collection of building and other stones from different parts of the country.

Paleontological Collection. There is a large collection of fossils in the Museum, but as they have not yet been arranged and catalogued, the number of specimens cannot be even estimated.

The Major Earle Collection. Major F. R. Earle has deposited in the Museum his private collection of minerals and fossils. This collection was formerly in Cane Hill College.

The Zoological and Botanical Collection. This collection consists of 200 birds and mammals, representing 80 species; 200 reptiles and amphibians, representing 40 species; 1,500 fishes, representing 350 species; 1,000 insects and other invertebrates, representing 200 species; several skeletons.

Donations to the Museum will be gratefully acknowledged, and the donors may be sure that anything of value sent to it will be carefully preserved and duly credited to the donor. Collections in the hands of private parties are likely to be soon scattered and destroyed through lack of care or improper handling.

The Museum is now prepared to receive collections on deposit, and to preserve and display them under the owner's name until called for.

While our Museum is most important on account of its educational value, it at the same time serves an important purpose in representing the resources of this State.

THE LABORATORIES.

In the laboratories of the University opportunities are afforded for practical instruction in Chemistry, Mineralogy, Physics, Botany, Zoology, Entomology, Horticulture, and in Civil, Mechanical, and Electrical Engineering.

CHEMICAL LABORATORIES.

The laboratories for chemical work are four in number and are situated in Science Hall. The Laboratory of General Chemistry is furnished with desks capable of accommodating eighty students. Each desk has a cupboard and two drawers, and is provided with gas and water. The Qualitative Laboratory has desks for sixteen students. Each desk is provided with suitable conveniences for taking care of apparatus, and is supplied with all the common reagents. The room is provided with a hood and other equipments usually found in qualitative laboratories. The Quantitative Laboratory has suitable accommodation for eight students, and beside the usual equipments, a Blake ore crusher and an assay furnace. Adjoining the Quantitative Labora-

tory is the weighing room, which contains two of Becker's best analytical balances, besides a number of less accurate instruments suitable for weighing large quantities of chemicals. The storeroom contains all the apparatus and chemicals. The room is in charge of an assistant, who gives out the supplies and keeps the books. This room contains the apparatus for preparing distilled water, and has also some space for laboratory work.

The Physical Laboratory is a room 20 by 70 feet and is provided with large tables suitable for use in performing experiments in General Physics and physical measurements. It has also eight pillars built up from the ground, and independent of the rest of the building, for the accommodation of delicate instruments which would otherwise be disturbed by the vibrations of the floor. The storeroom of physical apparatus is supplied with instruments suitable for illustrating the principles of Physics and for the use of students in practical work.

BIOLOGICAL LABORATORY.

The Biological Laboratory is located on the third floor of the University building, and has accommodation for about forty students. The Laboratory is furnished with work tables, a sink, and the necessary gas fixtures for incubators, sterilizers, etc., also an aquarium for keeping aquatic animals and plants on hand for observation and study. The equipment in apparatus consists of Bausch and Lombi compound micro-

scopes, dissecting microscopes, microtomes, and such other apparatus and chemicals as are needed for practical work in biology. There is a collection of insects and also apparatus for collecting, drying, preserving and mounting insects. The Laboratory has a number of skeletons of different animals, and models and charts for teaching plant and animal anatomy.

GEOLOGICAL LABORATORY.

The Geological Laboratory is provided with aneroid barometers, compasses, hand-levels, pedometers, etc., for field work, two petrographic microscopes, and an excellent equipment of drawing apparatus for the construction of geological sections and topographic maps; also, with apparatus for the construction of relief maps.

There is a well-equipped laboratory for Determinative Mineralogy, and a room for the preparation of relief maps and other work connected with the department of geology.

MECHANICAL ENGINEERING LABORATORY.

The three boilers used to heat the buildings and run the shops furnish ample facilities for testing the evaporative power of boilers, and the fuel consumption per pound of water evaporated. Comparative tests of feed-pumps and injectors are made. There is a complete set of calorimeters, thermometers, engine counters, engine indicators, measuring tanks, injectors, feed-water heaters, and all necessary apparatus for making

engine and boiler tests. A Westinghouse, a Reynolds-Corliss, an ordinary slide-valve, a horizontal and a vertical engine furnish all necessary apparatus for practice in valve setting and examples of steam engines.

An 8 by 10 automatic slide-valve engine, now under construction in the shops, will soon be added to the equipment of the department.

A 60,000-pound Riehle testing machine is used to give the student practice in testing the strength of materials of construction.

ELECTRICAL LABORATORY.

The Electrical Laboratory affords excellent facilities for experimental work with practical dynamo-electric machines. In the laboratory will be found the leading types of machines for arc and incandescent lighting, and for power; constant current and constant potential motors and generators, representative of the different methods of power transmission; a Kelvin balance, standard cells, and a potentiometer for standardizing measuring instruments; Weston and other voltmeters and ammeters; electro-dynamometers; galvanometers of the tangent, reflecting, and Deprez d'Arsonval types; magnetometers; standard resistance coils and bridges, and absorption dynamometers.

During the past year there have been added two Kelvin voltmeters, a D. C. A. C. polyphase motor-generator, a standard photometer, and a large number of smaller pieces of apparatus.

This equipment, to which valuable additions are

made from time to time, enables the student to carry on experimental work of a very wide range, and to attain proficiency in operating and testing electrical machinery and instruments.

Students are also allowed to inspect the plant of the Fayetteville Electric Light and Power Company, and to take measurements and make tests on it. The Electrical Laboratory is connected with their primary mains, and is thus supplied with alternate currents at 2,000 volts potential for experimental work.

CIVIL ENGINEERING LABORATORY AND EQUIPMENT.

The Civil Engineering Laboratory is provided with all necessary instruments for work in land, railroad and city surveying. The equipment of field instruments has been selected so as to afford students the opportunity of becoming familiar with the instruments of different manufacturers. Among the usual field instruments there are a number of engineers' transits, theodolite, Y levels, transit with solar attachment, compasses, hand levels, standard and ordinary steel tapes, aneroid barometers, plane table, sextant, etc.

During the past year the laboratory has been entirely remodeled, now occupying two large, well lighted rooms in the basement of the main building. An equipment for work in practical astronomy has also been added, consisting of a large Altazimuth, reading to seconds by levels and micrometers; a sidereal clock with break circuit attachment and a chronograph reading to tenths of seconds.

CEMENT LABORATORY.

The equipment for the purpose of testing the strength of mortars and cement, includes one 2,000-pound tensile testing machine, standard consistency apparatus, Vicat's and Gilmore's needles for determining set, metal molds for tension, compression and transverse test-pieces, steaming apparatus for blowing tests, and sieves for fineness.

SHOP EQUIPMENT.

The machine shop contains a Westinghouse engine, which runs the machinery in the whole building, a large iron planer, a shaper, four lathes of different sizes and makes, drill press, two grinding machines, milling machine, 60,000-pound testing machine, and a good supply of hand tools, benches and materials.

The forge shop contains twelve Buffalo forges with down draft which takes the smoke away through underground pipes, thus avoiding the smoke and dirt of the ordinary blacksmith shop. It also contains a shearing and a punching machine, twelve anvils of different weights, and all the necessary blacksmith tools for the twelve forges.

The wood shop contains one buzz planer, one large cylinder planer, circular saw, band saw, double spindle shaper, mortising and boring machine, five smaller lathes, one 18-inch pattern maker's lathe, and eighteen benches, each equipped with a complete set of carpenter's tools.

The foundry contains one Colliau cupola with a capacity of one and one-half tons of iron per hour, one brass furnace of 150 pounds capacity, a Buffalo pressure blower, and a core oven.

The foundry is well equipped with moulder's tools, flasks, etc.

The boiler room contains two 75-horsepower boilers, one 40-horsepower boiler, feed pump, injectors, feed-water heater, measuring tanks, etc.

The various departments of the shop building afford facilities for giving practical instruction to sixty or seventy students at one time.

Among the facilities for instruction in engineering contained in the equipment of the University in addition to the shop equipment may be mentioned:

A Dean steam pump with air chamber, water and steam cylinders, and valve chambers sectioned, so that a student may see the working parts.

A Cameron steam pump with a steam cylinder sectioned, showing the valve motion.

A Knowles pump in full working order.

A Blake steam pump in section.

Sections of injectors.

A model of a Stevenson's link motion.

A collection of samples of manufactured articles, such as steam pipe coverings, leather beltings, lubricating oils, etc.

DRAWING ROOM.

The equipment includes the usual tables and stools; and among the special apparatus and instru-

ments may be mentioned the planimeter, odontograph, slide rule, set of railroad curves, etc. A blue-print room has recently been fitted up with complete facilities for the details of the blue-print process. The room is also provided with photographic facilities which will be used to prepare lantern slides and prints illustrating various branches of engineering.

ART ROOM.

A commodious art room has been provided, and furnished with such appliances as are needed for efficient work in that department.

PHYSICAL CULTURE ROOM.

At the opening of the past year a large room on the north wing of the main building was set apart for the use of the Department of Physical Culture. This room has been furnished as far as means were available with the equipment necessary for systematic physical training.

CONDITIONS OF ADMISSION.

Candidates for admission are urged to be present at the beginning of the session. Admission at a later date is not refused, but is attended with greater or less inconvenience.

Students on their arrival in Fayetteville should report promptly to the President. Needless delay in reporting or unseemly conduct may justify exclusion from the University.

Applicants should present certificates of honorable discharge from the school last attended, or furnish other testimonials of good moral character.

Examinations for admission to the Freshman class will be held in the following subjects:

1. *English.* The admission requirements in English are those of the American Association of Colleges, and most of the leading institutions in the United States. The examination is divided into two parts.

(*a*) *Reading and Practice.* A few books are assigned for reading. The candidate is required to present evidence of a general knowledge of the subject-matter of these books, and to answer simple questions on the lives of their authors. The form of the examination will usually be the writing of a paragraph or two on each of the several topics set in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and calls for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of these books.

The books set for this part of the examination are:

1901-1902—Goldsmith's Vicar of Wakefield; Cooper's Last of the Mohicans; Lowell's Vision of Sir Launfal; Shakespeare's Merchant of Venice; Pope's Iliad, Books I, VI, XXII and XXIV; the Sir Roger

de Coverly Papers in the Spectator; Scott's Ivanhoe; Coleridge's Ancient Mariner; Tennyson's Princess; George Eliot's Silas Warner.

(*b*) *Study and Practice.* Other books are assigned for more careful study. The examination upon these books covers subject-matter, form, and structure, and also tests the candidate's ability to express his knowledge with clearness and accuracy.

The books set for this part of the examination are:

1901-1902—Burke's Speech on Conciliation with America; Macaulay's Essays on Milton and Addison; Shakespeare's Macbeth*; Milton's L'Allegro, Il Penseroso, Comus and Lycidas.

In order to pass this examination, a student must have a good practical knowledge of English Grammar (as much as is contained in Maxwell's English Grammar), and of an elementary Rhetoric such as Raub's, Waddy's or Williams's; and no candidate will be accepted whose work is noticeably defective in point of spelling, punctuation, idiom, or division into paragraphs.

2. *Arithmetic.* The examination will include the whole of some standard arithmetic.

3. *Algebra.* To Simultaneous Quadratic Equations, with special attention to factoring, the theory of exponents, and radicals. The examination will be taken from Wentworth's Higher Algebra.

4. *Plane Geometry.* All of Plane Geometry will be required for admission to the Freshman class.

*Julius Cæsar will be accepted.

5. *History.* The examination will be taken from Shinn's History of the United States and Barnes's General History.

6. *Geography.* Any complete manual, such as Maury's or Frye's, will give the preparation, if thoroughly mastered. Special attention is given to the geography of the United States and of Arkansas.

7. *Physiology.* Martin's Human Body, briefer course.

8. *Latin.* Collar and Daniel's Beginner's Latin Book; the first twenty-five lessons in Bennett's Latin Composition; Cæsar's Gallic War, four books, with questions on grammar and on the subject-matter, military equipment, etc. Lowe and Ewing's Cæsar is recommended. Latin is required for admission in Bachelor of Arts, Bachelor of Philosophy, and Normal courses; not in the other courses.

Students are advised to come prepared for all the studies in some one class, otherwise their course is necessarily more or less irregular.

ORDER OF EXAMINATIONS FOR ADMISSION.

Wednesday, September 18.—9 a. m., registration of students; 1 to 3 p. m., Geometry; 3 to 4 p. m., Physiology.

Thursday, September 19.—1 to 3 p. m., Arithmetic; 3 to 4 p. m., Geography.

Friday, September 20.—9 to 12 m., Algebra; 1 to 4 p. m., Latin.

Saturday, September 21.—9 to 11 a. m., English Grammar and Analysis; 11 to 12 m., English Composi-

tion, Reading; 1 to 2:30 p. m., U. S. History; 2:30 to 4 p. m., General History.

EXAMINATIONS AT OTHER PLACES THAN FAYETTEVILLE.

Students living at a distance from the University may obtain special local examinations if applied for in due time before the beginning of each session. The questions will be sent on application to the principal of any school or to any county examiner. The questions must be submitted by the principal or county examiner to the candidate under the usual restrictions of a written examination, and the questions and answers must be returned by the same officer to the University with his indorsement that the examination was properly conducted.

ADMISSION ON CERTIFICATES.

The graduates of accredited schools are admitted to the Freshman class in the University without examination, provided in all cases, certificates from the principal of the school attended be presented, containing specific statements of the kind and extent of work done in the studies in which credits are desired. Blank forms for such certificates will be furnished by the University. Students from schools regularly accredited to other universities will be admitted to the Freshman class without examination, provided they present evidence that such schools are duly accredited and that they have completed the work required for admission to the Freshman class of this University in the courses which they desire to take.

A student who presents a certificate of scholarship from a high school, academy, or college not on the list of accredited schools, is required to take such examinations as may be prescribed. The result of such examinations, together with the certificates, will be passed on and proper credit allowed by the professors of the departments which such student proposes to enter.

ADMISSION TO ADVANCED STANDING.

Candidates for admission to classes in advance of the Freshman will be required to pass satisfactory examinations in the subject previously pursued by the class which they propose to enter. But such candidates coming from colleges or universities of good standing may on the presentation of proper certificates as to the studies pursued be admitted provisionally to such standing and upon such terms as the Faculty may deem equitable in each case.

ACCREDITED SCHOOLS.

On application from the principal of any high school, academy, or other institution, an officer of the University will visit and examine the organization and work of such school. The points to be observed are the subjects included in the course of study, the extent of instruction in each subject, the text-books used, the length of the session, length of the recitation hours, methods of teaching, facilities for instruction, and the discipline. Upon a favorable report, submitted in writing by the visiting officer, the school is declared by

vote of the Faculty duly accredited to the Freshman class of the University.

Any changes that may occur, especially in the principalship of the school, or in its course of study, should be reported to the President of the University, as the list of accredited schools is subject to yearly revision.

The University earnestly desires to cultivate friendly and harmonious relations with all other educational enterprises of the State, and to add to its list all schools that are doing the required work and that desire to assume the accredited relation.

LIST OF ACCREDITED SCHOOLS.

Harrison High School, Principal, J. H. Caldwell.
Bellefonte High School, Principal, J. C. Eaton.
Fort Smith High School, Principal, B. W. Torreyson.
Little Rock High School, Principal, R. C. Hall.
Marianna Institute, Principal, S. E. L. Brown.
Lonoke High School, Principal, W. N. Hamlin.
Pine Bluff High School, Principal, J. H. Witherspoon.
Paris High School, Paris, Tex., Principal, J. G. Wooten.
Helena High School, Principal, W. W. Rivers.
Hot Springs High School, Principal, George B. Cook.
Amity High School, Principal, S. M. Samson.
Paris Academy, Paris, Ark., Principal, W. M. Wear.
Dardanelle High School, Principal, J. C. Bunch.
Eureka Springs High School, Principal, C. S. Barnett, Eureka Springs, Ark.
Southwestern Academy, Magnolia, Ark., Principal, J. W. Cantwell.
Texarkana High School, Principal, Andrew Rose.
Hope High School, Principal, P. T. Walker.
Thompson's Classical Institute, Paragould, Ark., Principal, R. S. Thompson.
Jonesboro Training School, Principal, F. R. Alexander.

Fordyce Training School, Principal, J. D. Clary, Fordyce, Ark.

Camden High School, Principal, H. H. Harper, Camden, Ark.

Spears-Langford Military Academy, Principals, G. S. Storey and R. B. Willis, Searcy, Ark.

Van Buren High School, Principal, A. L. Peacher, Van Buren, Ark.

Green Forest Academy, Principal, H. P. Burney.

Arkansas Cumberland College, Principal, J. T. Perigo.

Springdale High School, Principal, W. D. Gray.

GENERAL INFORMATION.

SELECTION OF COURSES OF STUDY.

Students are allowed all reasonable freedom in choosing their courses of study. But they are required to pursue their studies in the order prescribed, and, when candidates for a degree, to complete, as a condition of graduation, all the subjects in the course leading to such degree. Changes in the courses of study selected are discouraged, but for sufficient reasons are allowed if made within three weeks after admission; subsequently no such change can be made during the session except by the express permission of the Faculty.

NUMBER OF RECITATIONS.

Not less than twelve nor more than eighteen recitations or their equivalent per week, exclusive of military science and tactics, are allowed, except by permission of the Faculty. Two hours of laboratory, shop or

farm work, drawing or sight-reading, are counted equivalent to one recitation. If less than twelve recitations or their equivalent per week are specified in any course, studies must be elected to make up the deficiency.

CLASSIFICATION OF STUDENTS.

The satisfactory completion of the work of a class as attested by daily recitations and examinations is the condition of enrollment in a higher class. Some margin, however, is allowed for making up studies in arrears. But more than six hours per week required for such studies or more than six hours per week omitted from the studies of a given class prevents enrollment therein, except that in the engineering courses the number in both cases may be as many as eight. No student can be classified as Freshman in any course who has more than six hours per week of unfinished preparatory work.

SPECIAL STUDENTS.

1. Students are advised to pursue in all cases in which it is practicable some one of the regular courses leading to a degree. The number of these courses with the liberal provision for electives allows sufficient play for individual preference in the selection of subjects required for a liberal and well rounded education.

2. But students who are not candidates for a degree, but who have completed all the studies below the Freshman class, may elect a special course of study

under the supervision of the Classification Committee and with the approval of the professors in charge of the subjects chosen.

3. Persons of mature age (not less than 21 years of age) may elect a special course of study under the direction of the Faculty, provided they show by examination or otherwise that they are qualified to pursue profitably the studies which they propose to take up.

4. Students in special courses are subject to the same regulations and to the same examinations in the studies pursued as all other undergraduate students.

EXAMINATIONS.

1. Examinations, chiefly in writing, are held near the end of each term. The grades are determined by combining the values of the daily recitations and of the examinations, and are divided into five groups, as follows: "Excellent" (E); "Good" (G); "Fair" (F); "Poor" (P); "Bad" (B). A grade not lower than "Fair" is required for a "pass," which is the equivalent of about 75 per cent. At the end of each term a report is made to the parent or guardian of each student showing his progress, general conduct, etc.

2. If a student has failed in any study, he may nevertheless be allowed to take up the next study in advance, provided he be deemed, by the professor in charge of the department to which such study belongs, not incompetent to pursue it; but he will be required to pass a satisfactory examination in the study in which he failed, or take it up with the next class.

3. If a student has proved competent to continue his advanced work, but has not completed all the preceding studies in his course, he must resume the latter, and if he be found to be overworked, he will be required to drop a part of his advanced work.

APPOINTMENT OF BENEFICIARIES.

An act of the General Assembly of the State of Arkansas "To Regulate the Appointment of Beneficiary Students in the University of Arkansas, and to amend section 4088 of the Digest of the Statutes of 1894," approved April 19, 1895, reads as follows:

"*Section* 4088. It shall be the duty of the Board of Trustees to apportion the number of beneficiaries who shall be admitted as students in the University, without tuition, among the several counties of the State, according to population, and to notify the county judge of each county of the number apportioned to the county at least two months prior to the beginning of each regular annual session of the school; and it shall be the duty of the county judge to appoint from the actual residents of the county the number of beneficiaries to which it may be entitled, a preference being given to those noted for diligence and proficiency in study; and the appointment so made shall be entered of record. If the judge of any county shall fail to appoint its quota of beneficiaries, or if those appointed shall fail to attend, the President of the University shall appoint such beneficiaries to the full number authorized by law from other

counties having their full quota; *provided,* such appointments shall be vacated on application of the county judge of a county so failing to fill its quota."

NUMBER OF BENEFICIARIES.

The number of beneficiaries fixed by the Board of Trustees is 1,000, distributed to the counties of the State in proportion to the population.

There is also one "Honorable Scholarship" to each county, to be awarded for superior merit and proficiency, from the public schools of each county, according to section 2, of act of July 23, 1868.

All the beneficiary students should be present if practicable at the opening of the first term.

Appointments of beneficiaries are made for a period of four years; but failure to enter the University within a reasonable time, or absence from the University for a year or more, forfeits the appointment. Withdrawal at any time during the session may be construed to forfeit an appointment. A student may be reappointed after an appointment has expired or been forfeited.

QUALIFICATIONS.

County judges, in appointing beneficiaries, are requested to note that applicants will be required to pass satisfactory examinations in the following subjects as a condition of admission to the lowest preparatory class:

1. The Grammar School Arithmetic.

2. Maxwell's Elementary Grammar and Composition.

3. The whole of some Complete Manual of Geography.

4. Proficiency in spelling, reading and writing.

It is *highly important* in making appointments to *note carefully these requirements: otherwise students coming to the University unprepared incur needless expense and go away disappointed and often discouraged.*

FORM OF APPOINTMENT.

Students who have been appointed beneficiaries must bring evidence of appointment in the following form, to be sent by the judge of the county court, in accordance with the sixth section of an act approved March 6, 1875.

(FORM I—APPOINTMENT.)

No.... [To be given to the student.]

To Whom It May Concern:

I hereby appoint....., of .....County, State of Arkansas, as a beneficiary to the University of Arkansas.

Given under my hand this.....day of....., 190....

Send a notice like the following to the President of the University, and one to the Secretary of the Board of Trustees, at Fayetteville:

(FORM II—NOTICE TO THE PRESIDENT OF THE UNIVERSITY.)

.....Arkansas,

.....

To the .....University:

I hereby notify you that I have this day appointed ..... of ..... County, State of Arkansas, a beneficiary of the University of Arkansas.

Given under my hand this....day of....., 190....

APPORTIONMENT OF BENEFICIARIES.

Counties.		Counties.	
Arkansas	10	Lee	16
Ashley	13	Lincoln	12
Baxter	7	Little River	6
Benton	24	Logan	19
Boone	15	Lonoke	15
Bradley	8	Madison	15
Calhoun	7	Marion	10
Carroll	16	Miller	12
Chicot	12	Mississippi	9
Clay	13	Monroe	12
Clark	15	Montgomery	7
Cleburne	8	Nevada	17
Cleveland	10	Newton	6
Columbia	19	Ouachita	15
Conway	16	Perry	6
Craighead	8	Phillips	28
Crawford	11	Pike	3
Crittenden	11	Poinsett	7
Cross	6	Polk	3
Dallas	9	Pope	19
Desha	11	Prairie	10
Drew	15	Pulaski	45
Faulkner	17	Randolph	12
Franklin	18	Saline	11
Fulton	8	Scott	19
Garland	11	Searcy	7
Grant	8	Sebastian	28
Greene	9	Sevier	8
Hempstead	24	Sharp	12
Hot Spring	10	Stone	8
Howard	12	St. Francis	10
Independence	21	Union	16
Izard	14	Van Buren	11
Jackson	15	Washington	30
Jefferson	29	White	21
Johnson	15	Woodruff	12
Lafayette	6	Yell	18
Lawrence	10		

FEES AND EXPENSES.

Beneficiary students pay no tuition except in Art and Music. (For terms in Art and Music, see Departments of Art and Music.)

Admission fee, per session, charged all beneficiary students $5.00
Tuition per year to non-beneficiary students $30.00
Furniture for dormitory students, from..... $6.00 to $15.00
Board in dormitory at cost, per month, from ..... $8.00 to $9.50
Board in private families, per month, from .... $10.00 to $15.00
Uniform, including cap, purchased by male students, from ..... $13.00 to $15.00
Washing, per month, from ..... $1.00 to $1.50

The necessary expenses of a student who wishes to live cheaply are:

Board in dormitory, 9 months, about $80.00
Washing, 9 months, about $9.00
Furniture, first year only ..... $6.00 to $15.00
Admission fee $5.00
Total expenses first year, including uniform, but not other clothes or books, about $109.00
Total expenses, after first year, about $94.00

Admission fees are payable in advance; tuition fees are payable one-half at the beginning of each term. Board bills are payable monthly in advance.

A diploma fee of $5 is charged all graduates. All dues are to be paid or satisfactorily adjusted before diplomas are conferred.

BOARD FOR YOUNG MEN.

Rooms in the University dormitories are free, but occupants provide their furniture, fuel, and lights.

Students leaving the University frequently sell their furniture at a small reduction. If there are not rooms enough for all, preference is given to Arkansas students. An officer of the University is in charge of the building, and the rooms are inspected by the Faculty whenever deemed necessary.

Students boarding elsewhere are under the supervision of the President of the University, and are allowed to board only at places approved by him. No student is allowed to change his boarding place without the consent of the President.

BOARD FOR YOUNG LADIES.

Sufficient funds have not yet been secured to provide a dormitory for young ladies, but all necessary assistance is rendered them in finding homes in private families in the town. Parents, therefore, who send a daughter to the University, should place her under the control of the family with whom she boards, subject to the general supervision of the President of the University.

ABSENCES AND WITHDRAWALS.

Absences from the University during the session are not permitted except for valid reasons. The right of a parent to withdraw his son at any time, without reason assigned, is recognized, but without so withdrawing him, he cannot relieve him of the obligation to attend to his duties at the University. The incidental absences of students during the session are exceedingly

disadvantageous, both to themselves and to the University. While, therefore, the Faculty permit them, in cases where propriety or urgent necessity seems to make them unavoidable, they hold it to be a duty to inquire into the reasons for which the permission is solicited.

Parents or guardians who wish to withdraw their children or wards from the University should write to the President stating their wishes. No honorable discharge will be given to a student under age who is unable to produce the written application of his parent or guardian for his withdrawal, nor will an honorable discharge be given to a student under censure of any kind, whether for neglect of duty or other cause, even though he may have the consent of his parent or guardian for his withdrawal from the University.

SALE OF ARDENT SPIRITS PROHIBITED.

By an act of the General Assembly of the State of Arkansas, approved March 6, 1875, it is unlawful for any person to sell or give away any vinous or ardent spirits within three miles of the University of Arkansas, unless it be prescribed by a regular practicing physician for medicinal purposes.

UNIVERSITY ORGANIZATIONS.

LITERARY SOCIETIES.

Material changes have recently been made in the organization of the literary societies, and a new one, the Periclean, has been added. Their meetings, which are held weekly, afford enlarged opportunities for improvement in declamation, composition, debate, etc. Renewed interest in this valuable means of culture is shown by a number of students.

THE WILLIAM JENNINGS BRYAN PRIZE.

A prize fund of $250 has been bestowed upon the University through the liberality of Hon. W. J. Bryan, of Nebraska, and a prize, named in his honor and consisting of the annual income of this fund will be offered each year, provided productions worthy of its bestowal be presented.

The prize will be awarded for the best essay on some topic relating to the problems of government, and the subjects for competition will be selected on alternate years by the Department of Economics and Sociology and the Department of History. The contest will be open to students who have Junior or Senior standing, more than half of whose work has been of the grade G, and to special students in the collegiate department who have thirty-two hours credit of a similar grade.

The subject for the year 1901-1902 will be The Development of the Principle of Ministerial Responsibility and its Adaptability to American Institutions. Further details of the plan of competition may be obtained from the Professor of History. The competitive essays must be submitted by the first of May, 1902.

PRIZE IN THE MATHETIAN SOCIETY.

Professor G. W. Droke, of the class of 1880, generously offers a prize to be competed for by the members of that society. This prize is awarded for the best declamation.

PRIZE IN THE GARLAND SOCIETY.

Through the liberality of Professor G. A. Cole there is offered a handsome prize to be competed for by the members of the Garland Society. This prize is for the greatest improvement in debate.

THE ARKANSAS UNIVERSITY GEOLOGICAL AND BIOLOGICAL SURVEY.

For the promotion of interest in the natural sciences and a systematic investigation of the many interesting questions of natural history within and adjoining the State, it is proposed to organize the Arkansas University Geological and Biological Survey. A party will be organized for field work during the summer vacation under the direction of the professors in charge of Geology and Biology. Any student whose attainments are such as to permit him to take the work to advantage may be admitted to the party. In each case

credit will be given in the University course according to the time spent and the character of the work done. Science teachers and others interested in science throughout the State are cordially invited to avail themselves of this opportunity of doing a pleasant and profitable summer's work.

UNIVERSITY MAGAZINE.

The "Ozark" is a monthly periodical, edited and published by the students of the University. It is sent free to all the accredited schools, and to such other schools in the State as may desire it.

RELIGIOUS EXERCISES.

Religious exercises are held regularly in the University Chapel at a given period during each daily session. Students are required to attend.

The churches of Fayetteville cordially welcome the students to their Sunday Schools and various meetings for prayer and religious instruction. The denominations represented in the city are Baptist, Presbyterian, Cumberland Presbyterian, Methodist Episcopal, Methodist Episcopal South, Protestant Episcopal, Christian, and Roman Catholic. Many of the students are actively engaged in the work of the different church societies and guilds. The Young Men's Christian Association holds regular meetings, and a commendable interest is shown in the work of the Association. Two Bible classes have been organized and weekly recitations are conducted by officers of the University.

ATHLETIC ASSOCIATION.

The purpose of this organization is to encourage the development of the physical man.

The Association as originally formed consisted of the U. of A. Athletic Club, the U. of A. Tennis Club, the U. of A. Baseball Club, and the U. of A. Football Club; and it is further provided that if any other club, organized by the students of the University for the practice of any sport, game, or exercise not already represented by one of the members of the Association, shall make a written application for membership in the Association, and the said application shall be approved by the governing body of the Association, the petitioning club shall become a member of the Association with all the rights and privileges pertaining to such membership.

MILITARY DEPARTMENT.

The head of this department is usually an officer of the United States Army detailed by the War Department for duty at the University.

All male collegiate students are required to take the Theoretical Course, and all male students over 15 years of age, not physically disabled, are required to take the Practical Course in Military Science, the latter including infantry drill, target practice, camping, guard duty, and various other exercises, the course covering the entire period of the student's stay at the University.

The act of Congress donating public lands for edu-

cational purposes requires that institutions which are the beneficiaries of such donations include Military Science and Tactics in their course of instruction.

The system of practical instruction closely follows that used in the United States Army. It contains a course of gymnastic exercise for the development and improvement of the arms, chest, legs, hands, and feet. Besides being excellent physical training, this instruction has many advantages mentally. The necessity of being alert, listening for each word of command, and acting promptly on it, quickens the wit and cultivates the habit of fixing the attention and concentrating the thoughts. In addition to all this, it inculcates in the student a respect for authority and discipline which is equaled by no other system.

The cadets are organized into two battalions, composed of field staff, band, and six companies. The officers and non-commissioned officers are selected from those students who are most proficient in their drill and military studies, and most exemplary in their deportment, the majors, captains, and lieutenants being taken, usually, from the Senior and Junior classes, and sergeants and corporals from the Sophomore and Freshman classes. An office in one of the battalions is one of merit and distinction, and any unbecoming conduct subjects the appointee to reduction to the ranks.

The cadet band, of some twenty pieces, constitutes an interesting feature of the military organization. It receives the best instruction obtainable, practices three hours per week, and takes part in all military ceremonies.

A competitive drill is held annually at the close of the school year, when prizes are awarded for proficiency in this department.

COMPETITION AMONG THE COMPANIES.

At the competitive drill, held June 19, 1900, between the five companies of the corps of cadets of the University of Arkansas, Company "D" made the highest score. The following is a roll of the officers, non-commissioned officers and privates who participated in that contest and were members of the Company at that time:

Taylor, D. W., Captain.
Means, E. D., First Lieutenant.
Berry, E. R., Second Lieutenant.
Wasson, A. W., First Sergeant.

Sergeants.	Corporals.
Henderson, G. D.	Ware, B. P.
Barton, R. B.	Kinbrough, N. D.
Treadway, T. C.	Mitchell, S. A.
	Bell, R. D.

Privates.

Adams, J. G.	Dean, S. E.	McGehee, B. G.
Arnold, L. S.	Dickinson, C. W.	Meyer, Percy.
Abercrombie, J. S.	Ellis, W. Y.	Muller, J. F.
Bell, C. Y.	Hanger, A. E.	Orto, A. Z.
Beeler, K. L.	Harrison, R. Y.	Phillips, T. W.
Bisplinghoff, R. L.	Holcomb, G. A.	Pratt, F. H.
Bowles, E. C.	Honnett, A. M.	Ramsey, C. C.
Cook, L. J.	Kennedy, S. A.	Ross, J. E.
Cox, T. M.	Klyce, H. K.	Stone, B. H.
Davis, Thos.	Loper, F. M.	Thompson, J. O.
	Warrensburgh, W. B.	

CAPTAINS' COMPETITION.

To Captain G. C. Abernathy, of Company "F," was awarded the Sword.

INDIVIDUAL COMPETITION.

To Cadet Private R. J. Middleton, of Company "A," was awarded the Gold Medal.

ARMY APPOINTMENTS.

The three students of the Senior class having the highest grade of merit in this department are reported to the Secretary of War, and their names are recorded in the Adjutant General's office and published in the Army Register for that year. The President of the United States, in appointing officers from civil life, gives preference to those whose names are so recorded. Cadet officers on graduation are brevetted in the State Guard with the rank held by them in the Cadet Battalion at the date of their graduation, and recommendations of the commandant of Cadets as to special military qualifications of the graduates of the military course are filed in the office of the Adjutant General of the State and considered in appointing commissioned officers of the State Guard.

A neat uniform of gray cloth, with brass buttons and black trimmings, is required to be worn by all cadets at drill. The uniform, complete, costs about fifteen dollars, and with ordinary care will last an entire year.

ORGANIZATION OF THE CORPS OF CADETS FOR THE YEAR 1900-1901.

Captain George K. Spencer, U. S. Army, Commandant.

FIELD AND STAFF OFFICERS.

Majors.

George A. Vincenheller. J. T. Collier.

Second Lieutenant J. W. Baxter, Adjutant.

Second Lieutenant T. C. Treadway, Quartermaster.

Battalion Adjutants.

Second Lieutenant B. F. Davis.

Second Lieutenant C. L. Sadler.

Second Lieutenant W. D. Hobbs, Ordnance Officer.

NON-COMMISSIONED STAFF.

Sergeant Major G. V. Prall. Quartermaster Sergeant R. Alden.

Color Sergeant C. Von Jagersfeldt.

BAND.

First Lieutenant T. E. Sanders, Commanding.

First Lieutenant M. R. Herron, Leader.

Second Lieutenant. L. E. Worthley, Assistant Leader.

Principal Musicians.

J. L. Dunn. R. J. Nelson. T. M. Billings.

Sergeant F. E. Buchanan. Drum Major E. L. L. Keeler.

Chief Trumpeter M. G. Daily.

COMPANY ORGANIZATIONS.

COMPANY "A"

Captain W. E. Babb.

First Lieutenant A. W. Wasson.

Second Lieutenant R. B. Barton.

First Sergeant B. P. Ware.

Sergeants.

S. A. Mitchell. R. D. Bell.

P. D. Meyer. L. J. Cook.

Corporals.

C. L. Holt. W. H. McLaughlin.

J. F. Muller. B. Mitchell.

COMPANY "B."

Captain H. L. Ross.

First Lieutenant E. Howell.

Second Lieutenant W. A. Freeman.

First Sergeant R. D. Mesler.

Sergeants.

F. I. Gibson. D. C. Mooring.
J. Chapman. A. J. Gladson.

Corporals.

R. E. Curry. R. E. L. Austin.
C. M. Conway. H. E. Marshall.

COMPANY "C."

Captain C. C. Curry.

First Lieutenant C. Smith.

Second Lieutenant H. S. Brown.

First Sergeant W. Clancy.

Sergeants.

B. G. Covington. B. W. Langford.
H. Brewster. M. H. Mulkey.

Corporals.

V. P. Knott. C. F. Wood.
H. B. Hill. J. S. Abercrombie.

COMPANY "D."

Captain V. H. Cochrane.

First Lieutenant H. H. Wilson.

Second Lieutenant G. D. Henderson.

First Sergeant G. Stubblefield.

Sergeants.

R. Lester. G. G. Hayes.
C. O. Phillips. W. O. Wilson.

Corporals.

E. V. Leverette. P. D. Scott.
S. C. Swearingen. W. M. Harris.

COMPANY "E."

Captain F. I. Brown.

First Lieutenant W. N. Wilkinson.

Second Lieutenant H. E. Buchanan.

First Sergeant J. L. McConnell.

Sergeants.

W. Hight. A. McGehee.
H. T. Daniels. E. T. Archer.

Corporals.

C. C. Ramsey. J. E. Horsfall.
M. L. Cotton. F. W. Holt.

COMPANY "F."

Captain L. L. Newman.

First Lieutenant C. McRae.

Second Lieutenant W. H. Hudgins.

First Sergeant J. F. Govan.

Sergeants.

O. D. Briggs. R. J. Middleton.
W. Y. Ellis. T. Davis.

Corporals.

W. B. Rife. C. W. Gray.
C. Wood. W. A. Ruggles.

Agricultural Experiment Station.

R. L. Bennett, M. S., Director.
W. G. Vincenheller, Vice Director and Pomologist.
R. R. Dinwiddie, M. S., Pathologist and Bacteriologist.
C. L. Newman, B. S., Agriculturist.
Ernest Walker, B. S. A., Horticulturist and Entomologist.
George B. Irby, B. A., Assistant in Feeding Experiments.
J. F. Moore, B. S., Assistant Chemist.

The National Government established the Experiment Station as a department of the University in 1887, and maintains it to investigate agricultural problems for the aid of the farmers of the State.

The work of the Experiment Station is divided into the special lines of Agriculture, Horticulture and Entomology; Chemistry, Animal and Plant Diseases; Animal Production, Pomology and Farmers' Institute work. Specialists are employed in each line, and experiments are made both in the field and laboratory in the improvement of soils, the rotation of crops, diseases of plants and domestic animals, in fertilizers, the value of stock foods, dairying, and other matters. Students interested in agricultural subjects are given opportunity to observe the experiments and to acquaint themselves with the work of the Station in its various departments; the bulletins are also available for their use. The experiments and their results are published in bulletins, which are sent free to farmers, stock raisers, and fruit growers of the State, and to others interested in agriculture.

Those who desire the Station bulletins should apply for them to the Director of the Station, Fayetteville, Ark. One application is sufficient to obtain all future bulletins, if desired.

Degrees.

The following degrees are conferred by the University:

For undergraduate work:

Bachelor of Arts (B. A.).
Bachelor of Philosophy (B. Ph.).
Bachelor of Science (B. S.).
Bachelor of Civil Engineering (B. C. E.).
Bachelor of Mechanical Engineering (B. M. E.).
Bachelor of Electrical Engineering (B. E. E.).
Bachelor of Scientific Agriculture (B. S. A.).

For graduate work:

Master of Arts (M. A.).
Master of Science (M. S.).
Mechanical Engineer (M. E.).
Civil Engineer (C. E.).
Electrical Engineer (E. E.).

The number of hours required for graduation in all courses leading to the degrees of B. A., B. Ph., and B. S. is sixty-four, exclusive of military science and tactics.

The courses leading to these degrees have been planned with the view of retaining as required studies those subjects which seem essential for all who are candidates for a liberal degree, and, at the same time, of allowing as large freedom of selection as is consistent with the attainment of a sound education.

SCHEDULE OF STUDIES FOR THE DEGREES.

B. A.

FRESHMAN YEAR.

	Hours Per Week.
English 1	3
Latin 1	3
Greek 1	4
Mathematics 1	3
History 1	2

SOPHOMORE YEAR.

English 2	3
Latin 2	3
Greek 2	5
Mathematics 3	3
Chemistry 1, or Physics 1, or Biology 1, or 2, or 3, or Geology 1 or 2	3

B. Ph.

FRESHMAN YEAR.

	Hours Per Week.
English 1	3
Latin 1	3
Biology 2, or Geology 1	3
Mathematics 1	3
Chemistry 1, or Physics 1	3

SOPHOMORE YEAR.

English 2	3
Latin 2	3
German 1, or French 1	3
Mathematics 3	3
History 1 or 3, or Economics 1	2
Chemistry, or Physics, or Biology 2 or 3, or Geology 1 or 2	3

B. S.

FRESHMAN YEAR.

	Hours Per Week.
English 1	3
German 1	3
Chemistry 1	3
Mathematics 1	3
Biology 2, or Geology 1, or Agriculture, or Horticulture	3

SOPHOMORE YEAR.

English 2	3
German 2	3
Physics 1	3
Mathematics 3	3
History 1 or 3, or Economics 1	2
Biology 2 or 3, or Geology 1 or 2, or Chemistry, or Agriculture, or Horticulture	3

SCHEDULE OF STUDIES FOR THE DEGREES—Continued.

B. A.

JUNIOR YEAR.

	Hours Per Week.
English 5	2
Latin 3, or Greek 3	3
History 2, or / Economics 1.	3
Elective	8

SENIOR YEAR.

English 7	1
Philosophy 1 and 2	3
Some language already studied.	3
Elective	9

B. Ph.

JUNIOR YEAR.

	Hours Per Week.
English 5	2
German 2, or French 2	3
History 2 or 4 and 5, or / Economics 2 or 7	3
Elective	8

SENIOR YEAR

English 7	1
Philosophy 1 and 2	3
History, or / Economics 2 or 7	3
Elective	9

B. S.

JUNIOR YEAR.

	Hours Per Week.
English 5	2
History 2 or 4 and 5, or / Economics 2 or 7	3
Chemistry, or / Physics, or / Biology 4 or 5, or / Geology	3
Elective	8

SENIOR YEAR.

English 7	1
Philosophy 1 and 2	3
A natural or physical science already studied	3
Elective	9

Note 1.—The figures immediately following each subject refer to the Description of Courses beginning on page 62.

Note 2.—For courses in Engineering see pp. 89, 95, 99; in Agriculture, 106; in Horticulture, 109; in Normal Department, 83; in Music, 111; in Art, 115.

Note 3.—In the Junior Year, B. S. Course, Biology 4 is four hours per week, Biology 5 is five hours per week; hence, if these subjects are taken electives are reduced respectively to seven and six hours.

REQUIREMENTS FOR THE MASTER'S DEGREE.

1. A Bachelor's Degree from this University or another institution in which the course of study pursued is recognized as fully equivalent.

2. That not less than one year intervene between the conferring of the Bachelor's and Master's degrees.

3. That a course of study in one major and two minor subjects aggregating with a thesis sixteen hours per week be pursued in residence at the University for not less than one year. But graduates of this University may do half their work in absence under the direction of the Professors in charge of the subjects chosen, provided that residence at the University during the term preceding final examination for the degree is required.

4. That the major subject covering six hours shall be strictly graduate work and selected in a department in which all undergraduate work has been previously completed.

5. That the two minor studies aggregating eight hours per week shall be chosen from departments in each of which the candidate has already two years' credit, provided that no work credited to the Bachelor's Degree shall be counted toward the Master's Degree.

6. A satisfactory thesis in the major subject, the theme of which shall be approved by the head of the department six months before the final examination. For the thesis a credit of two hours shall be given.

7. That the candidate shall hand to the Professor in charge of the major subject the thesis on or

before the 15th of May. Previous to his final examination the candidate shall be questioned on his thesis by a committee composed of the Professors in charge of the major and minor subjects and a Professor of another department to be designated by the Faculty.

REQUIREMENTS FOR THE DEGREES OF C. E., M. E. OR E. E.

These courses of study are intended to give additional preparation to those students who have finished an undergraduate course in Engineering, for some special line of work to which their previous study has led. The student will have all reasonable liberty in selecting such specialties and will be limited only by certain general requirements. He will be required at the beginning of the year to make up the course which he proposes to follow and to present it to the Faculty, approved by the instructors concerned. If accepted, it will be subject to change only by the Faculty. In general, it is expected that these courses shall comprise one principal subject based on the course already pursued, and two secondary subjects, one or both of which should be closely related to the principal. The graduate course should amount to not less than fifteen recitation hours per week as counted in undergraduate work.

The subject of a thesis for any of the above degrees must be submitted to the Faculty for approval before the middle of the second term.

These degrees will also be given to graduates in Civil, Mechanical, and Electrical Engineering who have been in successful practice of their profession for

three years and who have submitted a satisfactory thesis on a subject approved by the Faculty.

Charges. Graduate students pay $10 for matriculation and registration, $10 tuition (non-residents $5) at the beginning of each session, and $10 in advance for the final examination. Students who fail to comply with any of these requirements, or who do not each year complete the equivalent of two terms' work in one subject, will be dropped from the rolls. Should such students desire to resume their studies, they must pay for matriculation and registration, as if beginning for the first time. The diploma fee is $5 in advance in each case.

Graduates attending only undergraduate classes pay the same fee as undergraduates.

Non-resident students have such assistance and instruction in their studies as can be conveniently given by correspondence.

HONORS.

Students who have attained grade "E" in work aggregating fifty hours per week (counted on the basis of a four years' course) are granted degrees "with special distinction."

Students who have attained grade "E" in work aggregating thirty-two hours per week, or grade "E" or "G" in work aggregating fifty hours per week, are granted degrees "with distinction."

Description of Courses.

ANCIENT LANGUAGES.

J. C. FUTRALL, Professor.
E. F. SHANNON, Associate Professor.

In this department the following courses are offered:

LATIN.

1. *Sallust, Cicero and Virgil* 3

An accurate knowledge of the Latin forms is insisted upon; exercises in prose composition taken from Bennett's Latin Composition.

Associate Professor Shannon.

Required of Freshmen in the B. A. and B. Ph. Courses.

2. *Cicero and Livy* 3

Systematic study of the grammar; exercises in prose composition, based chiefly upon the authors read in class; sight reading; Roman literature.

Professor Futrall.

Required of Sophomores in the B. A. and B. Ph. Courses.

3. *Horace, Livy and Tacitus* 3

Large amounts of each author read in class; parallel reading assigned; study of the grammar continued; the metres of Horace; prose composition; Roman literature.

Associate Professor Shannon.

Optional with Greek 3 for Juniors in the B. A. Course.

4. *Sight Reading Course* 2-1

Professor Futrall.

Elective for students who have completed Course 2.

5. *Roman Poets* 3

Readings will be taken from Plautus, Terence, Catullus, Horace and others, and the attention of the students will be directed rather to the literary side of the authors read than to grammatical and syntactical peculiarities.

Professor Futrall.

Elective for students who have completed Course 3.

Text-books: Bennett's and Gildersleeve's Grammars; Wilkin's Primer of Roman Literature; Cruttwell's Roman Literature. Any approved edition of the Latin authors may be used, except when certain editions are prescribed. Harper's and White's Lexicons are recommended.

GREEK.

1. *Elementary Course* 4

White's Beginner's Greek Book, with selections for reading. A thorough mastery of the forms and constructions given in this book is required.

Associate Professor Shannon.

Required of Freshmen in the B. A. Course.

2. *Xenophon and Lysias* 5

This course is intended to familiarize the student with all the ordinary Attic forms and constructions; frequent exercises in oral and written translation of English into Greek, based upon the text read, are given, and some practice in sight reading; Goodwin's Grammar.

Professor Futrall.

Required of Sophomores in the B. A. Course.

3. *Homer, Herodotus and Plato* 3

Systematic study of the grammar; prose composition; Greek literature; sight reading.

Associate Professor Shannon.

Optional with Latin 3 for Juniors in the B. A. Course.

4. *Thucydides, Demosthenes, Aristophanes and Sophocles* 3

The Course will be conducted on the same plan as Latin 5.

Professor Futrall.

Elective for students who have completed Course 3.

Text-books: Goodwin's Revised Greek Grammar; Goodwin's Greek Moods and Tenses; Collar and Daniell's Prose Composition, based on Xenophon's Anabasis; Higley's Exercise in Greek Composition. Any approved edition of the Greek authors may be used, except when certain editions are prescribed. Liddell and Scott's Lexicons are recommended.

ENGLISH AND MODERN LANGUAGES.

William A. Read, Professor.
Hadgie Davies, Associate Professor.
Colbert Searles, Associate Professor.
*Clara Earle, Instructor.
†Allie B. Deupree, Instructor.

ENGLISH.

1. *Elementary Course* 3

Thorough review of the essentials of English grammar, with frequent practice in composition. The course includes a study of the poets of America. Text-books: Baskervill and Sewell's English Grammar; Matthew's Introduction to American Literature; Riverside Literary Series.

Misses Davies and Deupree.

Required of all Freshmen in the B. A., B. S., B. Ph. and Engineering Courses. Required of all Sophomores in the Agricultural Course.

*Absent on leave. †For 1900-1901.

2. *Rhetoric and English Literature* 3

Rhetoric and composition; weekly themes and two essays each term. Text-books: Carpenter's Exercises in Rhetoric and English Composition; Pancoast's Introduction to English Literature.

Miss Davies.

Required of all Sophomores in B. A., B. Ph. and B. S. Courses. Elective for all others who have completed English 1.

3. *The English Novel in the Nineteenth Century*..2

A critical study of selected masterpieces, with parallel readings, and essays.

Miss Davies.

4. *(a) Shakespeare; (b) Poetics* 2

Course a: A study of representative plays.
Course b: Lectures on the origin and development of important verse forms. Subjects will be assigned for investigation.

Professor Read.

5. *Old English* 2

An introductory course for students beginning the study of the language. Text-book: Bright's Anglo-Saxon Reader.

Professor Read.

6. *Middle English* 1

A course in the interpretation of selected Middle English texts. In 1901-1902, Havelock (ed. Holthausen).

Professor Read.

7. *Romantic Poets of the Early Nineteenth Century* 1

Selections from Byron, Shelley and Keats.

Professor Read.

NOTE 1.—Juniors are required to take either Course 3, 4, or 5; Seniors may elect any one of these three.

NOTE 2.—Course 6 is optional with Course 7 for Seniors.

GERMAN.

1. *Elementary Course* 3

Thomas's Grammar; Brandt's Reader; written and oral exercises; parallel reading.

Professor Read.

Required of all Freshmen in B. S. Course and of Sophomores in B. Ph. Course not taking French. Elective in all other courses.

2. *German Literature of the Nineteenth Century*.3

Representative works of Sudermann, Hauptmann, and Wildenbruch; Harris's German Composition; Wells's History of German Literature. This course is conducted in German.

Professor Read.

Required of Sophomores in B. S. Course and of Juniors in B. Ph. Course not taking French 2. Elective in all other courses.

3. *German Literature of the Eighteenth Century*..2

Representative works of Lessing and Schiller.

Associate Professor Searles.

4. *Goethe* 2

Selected masterpieces of Goethe.

Professor Read.

5. *Advanced German Composition* 2-1

This course is designed particularly for those intending to teach German.

Professor Read.

6. *Scientific German* 2

Brandt and Day's Reader; Walther's Meereskunde.

Professor Read.

Elective for those who have completed Course 1.

NOTE.—Courses 3, 4, and 5 are elective for those who have completed Courses 1 and 2.

FRENCH.

1. *Elementary Course* 3

Deborde's Grammar; Kuhns's French Reading for Beginners, supplemented by easy texts if time permits. Persistent drill in pronunciation.

Associate Professor Searles.

Either French 1 or German 1 required of Sophomores in the B. Ph. Course; elective for all others.

2. *French Reading* 3

Dumas, L'Evasion du Duc de Beaufort; Pailleron, Le Monde ou l'on s' ennuie; Bowen, French Lyrics; Balzac, Le Cure de Tours; Ohnet, La Fille du Depute.

Miss Deupree.

Either French 2 or German 2 required of Juniors in the B. Ph. Course; elective for all others.

3. *French Composition* 2

Miss Deupree.

Elective for those who have completed Course 1.

4. *The French Classic Drama* 3

Critical study of the great French dramatists; lectures in French; reports on assigned topics.

Associate Professor Searles.

Elective for those who have completed Courses 1 and 2.

5. *Nineteenth Century Literature* 3

Lectures in French; reports based on outside reading.

Associate Professor Searles.

This Course is designed to complete the work of Course 4, but by special permission of the instructor may be taken by those who have completed Course 2.

6. *French Conversation* 2

Reading and discussion of easy texts in the French language.

Miss Deupree.

Elective for those who have completed Course 1.

7. *Old French and the Phonetic Development of the Language* 2

This course is designed especially for those who expect to teach French.

Associate Professor Searles.

Elective for those who have completed Courses 1, 2, and 3.

NOTE.—Course 6 counts for only one hour in the number of hours required for graduation.

SPANISH.

1. *Elementary Course* 3

Knapp's Grammar; Matzke's Spanish Reader; El Si de las Ninas.

Associate Professor Searles.

2. *Spanish Classic Writers* 3

Study of representative authors; advanced grammar and composition.

Miss Deupree.

ITALIAN.

1. *Elementary Course* 3

Bowen's Italian Reader; De Amicis' Cuore; grammar to be selected.

Associate Professor Searles.

2. *Dante* 3

La Vita Nuova; Divina Commedia. Lectures on the poet's life and period.

Associate Professor Searles.

This Course will not be given until 1902-1903.

NOTE.—All courses in Spanish and Italian are Junior and Senior electives.

MATHEMATICS AND ASTRONOMY.

GEO. W. DROKE, Professor.
B. J. DUNN, Associate Professor.

In this department the following courses are offered:

MATHEMATICS.

1. (*a*) *Solid Geometry (first term)* 3
   Beman and Smith's New Plane and Solid Geometry.

   (*b*) *Plane Trigonometry (second term)* 3
   Crawley's Trigonometry.
   Required of all Freshmen.

2. *Algebra* 2
   Hall and Knight's Algebra for Colleges and Schools.
   Required of all Freshmen engineers; optional for all Freshmen in other courses.

3. *Algebra, Conic Sections* 3
   Required of all Sophomores in the B. S., B. Ph. and B. A. Courses.

4. *Determinants, Analytic Geometry* 3
   Tanner and Allen's Analytic Geometry.
   Required of Sophomore engineers.

5. *Algebra (continuation of Course 2), Spherical Trigonometry, Calculus* 2

6. *Differential and Integral Calculus* 3
   Osborne's Calculus.
   Required of Junior engineers.

7. *Spherical Trigonometry, Analytic Geometry*....3
   Elective for Juniors and Seniors in the B. S., B. Ph. and B. A. Courses.

8. *Spherical Trigonometry, Theory of Equations, Determinants* 2
   Junior and Senior elective.

9. *Analytic Geometry of Three Dimensions, and Differential Equations* 3

Books of reference: C. Smith's and Frost's Solid Geometry, Salmon's Geometry of three Dimensions.

Senior elective.

Those who desire to make pure Mathematics their major subject are advised to take Course 4 instead of Course 3 in the Sophomore year, Courses 2 and 6 in the Junior, and Courses 8 and 9 in the Senior.

GRADUATE COURSES.

10. *Modern Pure Geometry, Modern Analytic Geometry* 3

11. *Advanced Integral Calculus, Modern Higher Algebra* 3

12. *Projective Geometry, Theory of Functions*....3

ASTRONOMY.

13. *Descriptive Astronomy, Lectures and Recitations* 3

Todd's New Astronomy. First term.

14. *Spherical Astronomy (second term)*.....3

The class in Astronomy has the use of a new four-inch telescope, sextant, celestial globe, and other simple instruments. The "Laboratory Method" of instruction is followed as far as practicable.

HISTORY AND POLITICAL SCIENCE.

A. F. Lewis, Professor.

The aim of this department is to study the moral, social and political forces which have operated in the development of national life and to apply the lessons

thus learned to the solution of the social problems of our own time. A good course in general history may be obtained by taking courses 1 and 2, while a similar course in American and English history is to be found in courses 3, 4 and 5. Course 1 is required of all Freshmen in the B. A. course. It is strongly urged that all candidates for the Ph. B. and B. S. degrees take this course in their preparatory work so that they may be prepared for course 2 in their Sophomore year and for other elective courses in their Junior and Senior years. Those electing any of the courses, 6 to 11 inclusive, must have a sufficient preparation to pursue with profit the courses chosen. In general courses 1 and 2 will be required prior to taking courses 6, 7, 10 and 11, and courses 1 and 2 or 3, 4 and 5 will be prerequisites to courses 8 and 9.

COURSES.

1. *History of Greece and Rome* 2

Required of all B. A. students in Freshman year. Students in Ph. B. and B. S. courses will take this course in Sophomore year, unless they have previously taken it in the preparatory school, in which case they will take Course 2 instead. Text-books: Oman's History of Greece and Leighton's History of Rome. These will be supplemented by parallel reading and topical research.

2. *Mediaeval and Modern History* 3

This course may be taken in the Sophomore year by all students who enter with Greek and Roman history, and in the Junior or Senior year by all who have taken Course 1. Duruy's Middle Ages and Duruy's Modern Times supplemented by reports and prescribed readings.

3. *American Political and Constitutional History*..2

From the Revolution to the present with a review of the colonial period. May be elected by all collegiate students. Lee's Advanced School History and Curry's Southern States, with lectures, reports and parallel reading.

4. *American Civil Government and Constitutional Law* 1

May be taken with Course 3 or separately. Fiske's Civil Government, with supplementary reading.

5. *Political and Constitutional History of England*.2

General College elective. Montgomery's History of England and Feilden's Short Constitutional History of England, with parallel reading, topical research and lectures. The first term will be given to the political history which may be taken separately as the equivalent of a one hour elective.

6. *Era of the Renaissance and Reformation (first term)* 2

This course is based on Seebohm's Era of the Protestant Revolution, which is largely supplemented by lectures, reports, and parallel reading.

7. *French Revolution and Napoleonic Era (second term)* 2

Based on Morris's French Revolution and First Empire, supplemented as in Course 6.

8. *Comparative Study of American and European Governments (first term)* 2

Selections from Woodrow Wilson's State, with parallel reading and topical research.

9. *International Law (second term)* 2

Davis's Elements of International Law, prescribed readings, and reports.

10. *Nineteenth Century History, with Special Reference to Germany* 1

Müller's Political History of Recent Times, reports and lectures.

11. *History of Civilization* 1

Guizot's History of Civilization, edited by Knight, topical research and lectures.

ECONOMICS AND SOCIOLOGY.

S. J. McLean, Professor.

The courses offered in this department are designed to afford such instruction as will be advantageous to those who intend to enter public life, or those callings which will bring them closely in touch with the activities of citizenship. Course 1 is required before more advanced courses in this department are taken.

1. *Principles of Economics (both terms)* 2

Recitations, prescribed readings, reports and debates. Text-book: Walker, Political Economy.

2. *Industrial History of America and Europe since* 1763 *(first term)* 3

The leading industrial facts of this period, including panics and trusts, are considered. A detailed study of some of the more important industries will also be made. Lectures, reports, and prescribed readings. Selected portions of Rand's Economic History will be studied.

3. *Banking (first part of second term)* 3

The principles of Banking and the history of Banking Systems. Lectures, recitations, reports and readings. Text-book: Dunbar, Chapters in the Theory and History of Banking.

4. *Money (latter part of second term)* 3

The principles of Money and the history of Monetary Systems are considered.

5. *Tariff History and Problems (first term)* 2

United States, England, France and Germany. Special attention will be devoted to the tariff history of the United States. Text-book: Taussig, Tariff History of the United States. This will be supplemented by lectures and use of government documents.

6. *History of Economic Thought, from Plato and Aristotle to the Present (second term)*.2

Text-book: Ingram's History of Political Economy; supplementary readings and reports will also be required.

7. *Public Finance (first term)* 3

Principles and history of taxation, management of public debts, consideration of governmental activities, etc. Text-book: Plehn, Introduction to Public Finance. Lectures, readings, and use of government documents.

8. *Transportation, Its History and Problems (second term)* 3

The economic aspects of water transportation, the great lakes, canal systems, and the Mississippi; the evolution of the railroad system, railroad geography, rate-making, State versus private ownership, methods of government control, railroad finances, etc. Lectures, prescribed readings, and use of Railroad Commission Reports. Text-book: Hadley, Railroad Transportation.

9. *Principles of Sociology (first term)* 2

This course considers the elements and conditions of social growth and progress. Recitations, lectures and reading of assigned chapters in Spencer's Principles of Sociology and in Gidding's Principles of Sociology. Text-book: Fairbank's Introduction to Sociology.

10. *Problems of Social Growth (second term)*.....2

Trade-unionism, arbitration and conciliation, socialism, communism, co-operation and profit-sharing. Lectures and reports. For reference: Ely, The Labor Movement in America, and Ely, French and German Socialism.

11. *Commerce (first term)* 2

Theory of foreign commerce; investigation of the commercial resources of the leading countries of the present. Students will be expected to acquaint themselves with the United States Consular Reports. Text-book: Chisholm, Smaller Commercial Geography.

This course will not be offered during the year 1901-1902.

12. *Labor Legislation (second term)* 2

History and critical investigation of the attitude of the State towards Labor; apprenticeship laws, combination laws, trade union recognition, factory legislation, etc. For reference: Stimson, Handbook to the Labor Law of the United States.

This course will not be offered during the year 1901-1902.

CHEMISTRY AND PHYSICS.

A. E. MENKE, Professor.
P. H. WALKER, Associate Professor.

CHEMISTRY.

1. *General Inorganic Chemistry* 3

Lectures and recitations twice a week; laboratory work one afternoon throughout the year.

Professor Menke.

Required for Freshmen B. S., all Engineering Courses, and B. S. A.

2. *Chemical Philosophy* 2

Twice per week, second term. This course supplements the instruction in theoretical chemistry given in Course 1.

Associate Professor Walker.

3. *Analytical Chemistry.*

(a) Recitations twice per week, first term. (b) Laboratory work two afternoons per week for engineering students, three afternoons for scientific students, throughout the year. The recitations are occupied with the discussion of problems depending on the principles of qualitative and quantitative analysis. The object of these discussions is to enable the student to understand the methods of separation as well as to be able to follow them practically. In the laboratory a large number of substances, both simple and complex, are analyzed. Chemistry 13 may be taken as a part of this course.

Associate Professor Walker.

4. *Organic Chemistry* 3

Recitations three times per week throughout the year with laboratory work, if desired. Bernthsen's Organic Chemistry.

Associate Professor Walker.

5. *Quantitative Analysis* .....3 to 8

Laboratory work 6 to 16 hours per week. Practice in gravimetric and volumetric analysis.

Associate Professor Walker.

6. *Quantitative Analysis* 4

Second course. Analysis of agriculture and food products. First term.

Professor Menke.

7. *Technical Chemistry* 3

Three times per week throughout the year. A study of industries having chemical principles and processes for a basis.

Associate Professor Walker.

8. *Physical Chemistry* 3

Chiefly laboratory work; determination of molecular weights according to the various methods in common use; thermochemical work, measurement of electric conductivity of electrolytes; practice with polariscope, refractometer, etc.

Associate Professor Walker.

9. *Assaying* ....2 to 3

Class meets at convenience of the instructor. Preparing and testing reagents, making cupels, etc., and assaying samples of furnace and mill products. Second term. Text-book: Ricketts & Miller.

Professor Menke.

10. *Toxicology* 1

Once a week throughout the year. A working knowledge of qualitative and quantitative analysis is a condition requisite for admission to this class.

Professor Menke.

11. *Gas Analysis* 1

Practical work once a week throughout the year. This course is designed particularly for technical students.

Professor Menke.

12. *Metallurgy* 3

Three times per week. First term.

Professor Menke.

13. *Water Analysis* 3

One term, three times per week, for civil engineering students.

Associate Professor Walker.

14. *Electro-Chemistry* 2

Twice per week the first term. For Junior electrical engineering students.

Associate Professor Walker.

PHYSICS.

1. *General Physics* 3

Recitations twice and laboratory work once per week throughout the year. Recitations and experimental lectures on mechanics, sound, heat, light, magnetism, and electricity.

Professor Menke.

Required for Sophomore B. S. and Engineering students.

2. *Electricity and Magnetism* 3

Recitations twice and laboratory work once per week throughout the year. Text-book: Silvanus Thomson's Electricity and Magnetism.

Professor Menke.

Required for Sophomore E. E. students.

3. *Physical Measurements* 2

Measurements in mechanics, sound, heat, light, magnetism, and electricity. Manual: Sabine.

Professor Menke.

DEPARTMENT OF BIOLOGY.

F. W. Pickel, Professor.

The courses in this department have been arranged to meet the needs of three classes of students: Those who desire to become acquainted with the fundamental

principles of plant and animal life; those who contemplate the study of medicine; and those wishing to go more thoroughly into the study of biological science to obtain the technical training necessary for subsequent investigation or for teaching.

1. *General Biology* 3

This course serves as an introduction to the whole field of biological science, and should be a part of the general education of every student. Types of plants and animals will be dissected and studied in the laboratory and the essential truths of biology emphasized. One recitation and laboratory four hours per week throughout the year. Text-book: Parker's Lessons in Biology.

2. *Botany* 3

In this course special attention is paid to the morphology, physiology and ecology of plants, but due attention is given to the systematic classification of plants in the second term, and each student is required to collect and write a technical description of a certain number of plants. The geological history of plants and the origin of cultivated plants will be briefly considered. Recitations and laboratory six hours per week throughout the year. Text-books: Barnes's Plant Life; Chapman's Flora of Southern States.

3. *Botany.*

This course will consist of lectures, assigned readings and laboratory work in morphology, physiology or toxonomy. Work and hours arranged after consultation with the head of the department.

Required: Botany 2.

4. *Bacteriology* 4

An introduction to the subject and instruction in laboratory technique—the preparation of nutrient media, the

characteristics of bacteria, the kind and effects, isolating and keeping pure cultures, microscopical preparations, the study of bacteria found in soil, in water and in air; study of pathogenic forms and their relation to disease. One lecture and six hours laboratory, first term.

Required: Chemistry 1. Biology 1.

5. *General Zoology* 3

A general course in Invertebrate and Vertebrate Morphology. Attention will be given to the fundamental facts of zoological science, and the laws of development, heredity, variation, correlation, etc. In connection with the laboratory work in the course instruction will be given to such students as desire to learn methods of preparing bird skins and mammal skins for laboratory and museum specimens. One recitation and four hours laboratory per week throughout the year. Text-books: Hertwig's Essentials of Zoology; Kingsley's Comparative Anatomy. Reference books: McMurrich's Invertebrate Zoology; Text-book of Zoology (Parker & Haswell); Wiedersheim's Comparative Anatomy of Vertebrates.

6. *Entomology* 4

Lectures relating to the metamorphosis, anatomy, physiology, and habits of insects. Special importance will be given to beneficial and injurious insects, with remedies for the latter. Laboratory work will consist in the study of typical forms with the aid of the guide. This will be followed with determinations of families and practical studies of life histories of insects, and with methods of collecting, breeding and preserving specimens. Two lectures and four hours laboratory work per week. Text-books: Comstock's Laboratory Guide; Harris's Insects Injurious to Vegetation. In all courses in Botany and Zoology, field work, when practicable, will form an important feature of the work.

7. *Mammalian Anatomy* 5

This course is offered to students intending to study medicine, but is open to any student who has completed Course 1 in Biology. It includes a thorough dissection of one of the higher mammals, e. g., the dog, cat or rabbit; a short course of instruction in histological and embryological methods of technique to acquaint the student with the principles of Histology and Embryology. Two lectures and six hours laboratory per week throughout the year. Reference books: Gray's Human Anatomy; Reynold's The Vertebrate Skeleton; Marshall's Embryology; Stohr's Histology.

8. *Physiology* 4

The physiology of foods, digestion and nutrition; the blood, circulation, and respiratory mechanism; the excretion, especially analysis of urine; functions of brain and spinal cord; physiology of nerve and muscle. Two lectures and four hours laboratory a week, second term.

Required: Chemistry 1. Elementary Physiology.

9. *A Special Course in Nature Study, its Aim, Method, etc., and Systematic Science Teaching will be offered to students who expect to teach.*

One lecture per week throughout the year.

GEOLOGY AND MINERALOGY.

A. H. PURDUE, Professor.

1. *Surface Geology* 3

(a) Recitations three times a week on the origin of topographic features, with special attention to the development of streams and stream features, followed by (b) a detailed study of the physiography of the United States. Text-books: Russell's Rivers of North America and Geikie's Earth Sculpture, with collateral reading.

2. *General Geology, Continental Evolution, and Economic Geology* 3

(a) Structural and Dynamic Geology. Recitations and lectures three times a week during the first term. Text: Scott's Introduction to Geology, with outside reading.

(b) Continental Evolution. Lectures, with collateral reading, during a part of the second term, on the Evolution of the North American Continent.

(c) Economic Geology. Lectures, with collateral reading, following course (b), on the formation, modes of occurrence, uses and geographic distribution of ore deposits.

3. *Practical Geology* 1

Field and laboratory work two hours a week throughout the year, with the construction of geological maps and sections, topographic maps, and relief maps.

4. *Paleontology* 3

Laboratory work six hours a week throughout the year, on the determination of fossil organisms.

5. *Crystallography and Mineralogy* 3

(a) Lectures and recitations two hours a week during the first six weeks on the elements of Geometric Crystallography.

(b) Laboratory work (two hours) three times a week following course (a) and extending through the year. Determination of minerals before the blowpipe, and in the wet way. Text: Determinative Mineralogy, Brush.

6. *Field and Special Courses* 3

Students electing Geology as a major will be expected to spend sufficient time in the field for the careful investigation of local geological problems, and to present acceptable theses on the work done. Special courses will be arranged for those who wish to elect work in addition to what is required.

NORMAL COURSE.

JUNIUS JORDAN, Professor.

Section 6974 of the Revised Statutes of the State is as follows: "The State Superintendent of Public Instruction shall have power to grant State certificates, which shall be valid for life, unless revoked, to any person in the State who shall pass a thorough examination in all those branches required for granting county certificates, and also in algebra and geometry, physics, rhetoric, mental philosophy, history, Latin, the Constitution of the United States, and of the State of Arkansas, natural history, and the theory and art of teaching.

This course includes all the branches required for a State certificate in accordance with the law, and leads to the degree of Licentiate of Instruction (L. I.).

Students who have completed the Normal Course and who wish to continue work for a regular university degree, will be allowed proper credits on the subjects mastered in this department.

FRESHMAN YEAR.

	Hours per week.
English 1	3
Latin 1	3
Mathematics 1	3
Biology 1	3
Pedagogics 1, 2, 3, 4	5

SOPHOMORE YEAR.

English 2	3
Mathematics 2	3
History 3, 4	3
Physics 1	3
Pedagogics 5, 6, 7, 8	5

Recitations and lectures in Pedagogy 1, three times a week, and in Pedagogy 2, twice a week, first term.
Pedagogy 3, three times a week, and Pedagogy 4, twice a week, second term. Gordy, Dexter and Garlick, Sharp, Seeley.
Pedagogy 5, three times a week, and Pedagogy 6, twice a week, first term. Hill, Compayre.
Pedagogy 7, three times a week, and Pedagogy 8, twice a week, second term. Barnett, Hinsdale, Harris.

PEDAGOGY.

JUNIUS JORDAN, Professor.

The graduates of the University are filling acceptably many of the best educational positions in the State and the demand now is greater than the supply. The need of professionally trained teachers is actively increasing, and the facilities heretofore afforded at the University have been enlarged so as to meet the necessity. The Normal department has been well equipped with needful devices, apparatus and library, and the choicest educational literature and reading is daily supplied. The live problems of the hour are subjects in the regular work of lectures, discussions and theses. Besides the need of more thorough efficiency in the teaching force in common schools, there is a strenuous demand for superior skill and power in our graded school. The energy of expansion in educational interests, consequent upon the growth of population, wealth and revenues, is manifested by the increase in the number of special school districts and high schools. It is further noticed in improved buildings, equipments and appointments. This higher expression of progressive pub-

lic sentiment insures the demand for professionally trained teachers—those who understand teaching as a science and an art, and who know the history of education and something of its problems and developments. It is no longer a credit to the State that such efficiency and power has been heretofore sought beyond our borders.

Granting the vast wealth of equipment in Normal schools in the Eastern States and the acuteness of their professional training, yet those who study Pedagogy within the political, civil and sociological environments of their own State are prepared to work more effectively for the pupil and for the commonwealth than those educated elsewhere and who are strangers to the problems and conditions that confront us in Arkansas.

The department of Pedagogy was organized by the Board of Trustees to provide the course of study and work that is necessary, as follows:

1. To increase skill and efficiency in organization, methods, management, and teaching in our rural, or ungraded schools.
2. To qualify teachers for the higher grades embodied in the studies necessary for State license.
3. To prepare teachers for professional skill in supervision, either as principals or superintendents.
4. To give increased scope and development to our secondary schools.
5. To elevate and maintain in the State a greater pride and a higher professional standard.

The full course of Pedagogics will embrace the following subjects, supplemented by cognate readings, lectures and discussions.

Methods and Management.
Organization and Teaching.
Psychology as Applied to Education.
Theory and Art in Primary Schools.
Practice Methods with Model Classes.
School Supervision.
School Architecture, Sanitation, and Hygiene.
History and Science of Education.
Comparative Methods—European and American.
Ancient and Modern Systems Compared.
History of Educational Epochs and Reformers.
Effects on Modern Civilization, Caused by the Improved Science and Art of Pedagogy.
Ethics of the Schoolroom and of the Profession.
Ethics—Personal, Social, National.
Physiological—Psychology.
Lectures and Experimental Work in Neurology.
History of Education in the United States.
History of Education in Arkansas.
Comparative Systems in the States.
Arkansas School Laws.
School Laws of the Various States.

The Department of Pedagogy is partially correlated with the work necessary for the degree B. Ph., and on the completion of the Normal course, students may continue Junior work in this course, getting credit for those studies satisfactorily passed as requirements in the regular course.

DEPARTMENT OF PEDAGOGY.

1. *Elements of Psychology and Pedagogy.*

Three times a week with lectures. Readings: Lives of Pestalozzi and Horace Mann.

2. *Teaching and Organization.*

Methods and Management; twice a week. Readings: King's School Interests and Duties; History of Education in Arkansas.

3. *Applied Psychology.*

Lectures on Pedagogy; three times a week. System and Science of Methods. Practical work with model classes.

4. *History of Education.*

Ancient and Modern Systems Compared; twice a week. Studies in Education, Hinsdale, Harris. Arkansas School Law.

5. *Psychology.*

Psychological Foundations of Education; three times a week. Lectures on Neurology, with experiments and investigations in the department of Biology. Reading: Boone's History of Education in the United States.

6. *History of Pedagogy.*

Educational Epochs and Reformers; twice a week. Ethics, as to personal and relative rights and duties. Ethics of the Schoolroom, and Professional Ethics; once a week.

7. *Teaching and Organization with Special Reference to Secondary Schools.*

Barnett's School Supervision; three times a week. Architecture, Sanitation and Hygiene; once a week.

8. *Modern Educational Development.*

European and American systems compared. Effects on modern civilization of the improved standards of Pedagogics. Comparative study of the school laws of the various States; three times a week.

On the completion of the full course in Pedagogics, students will be required to write theses on the Public School System of Arkansas; defects of the school law and how remedied; educational development in the State.

PHILOSOPHY.

JUNIUS JORDAN, Professor.

The course offered in this Department consists of recitations, lectures, and free and full discussions by the members of the class. In connection with a careful examination of the views and opinions of leading thinkers, students are encouraged to study their own mental phenomena and to subject to the test of individual consciousness the various theories which come under investigation. Due attention is given to the recognized contributions of modern Physiology to Psychology.

As introductory to this part of the subject, the Professor of Biology gives a course of lectures with accompanying laboratory work in Neurology, which all students whose course includes Pedagogy and Psychology are required to attend during a part of the second term in Sophomore Pedagogics, and Junior work for the University degrees.

PSYCHOLOGY.

1. Study, investigation, and discussion of the various mental phenomena as involved in the intellectual processes of Knowing, Feeling, and Willing. An examination of the various theories of consciousness, as set forth by Grecian, European and American Philosophers. Text-books: Stout, Ladd's Outlines of Descriptive Psychology. Application of principles to Education. Three times a week.

2. *Elements of Ethics.*

Comparative Ethics. The bearing on the moral standard of the theories of Evolution, Sociology, Biology, Economics, and Political Economy. Three times a week. Text-books: Mackenzie, Paulsen.

3. *Logic.*

Text-book: Hyslop. Reference books: Mills, Bain, Hamilton. Twice a week.

4. *History of Philosophy.*

An outline of the Ancient, Mediaeval and Modern theories. The history of European morals from Charlemagne to the present time. The development of Ethics in the progress and economics of the national life of the United States. Three times a week. Text-books: Webber, Scwegler. References: Uberweg, Leckey.

MECHANICAL ENGINEERING.

CHAS. E. HOUGHTON, Professor and Superintendent of Mechanic Arts.

B. N. WILSON, Adjunct Professor and Assistant Superintendent of Mechanic Arts.

*MACK MARTIN, Assistant Superintendent of Mechanic Arts.

J. L. ROSS, Instructor in Iron Working and Forging.

Two courses are offered, a four years' course leading to the degree of B. M. E., and a short course of two or three years, depending on the preparation of the student.

While the major part of a course in Mechanical Engineering necessarily consists of scientific and technical studies, the four years' course provides for instruc-

*Absent on leave 1900-1901.

tion in English and the modern languages, and offers electives that may be taken in other than technical subjects.

Besides the mathematical and scientific studies which constitute the necessary preparation for the study of the engineering branches, instruction is given in mechanics, machine design, theory of steam and gas engines, etc. Special attention is given to the practical application of the truths and the theories taught in the class room, a large part of the time being devoted to shop work, drawing, and laboratory practice.

Sufficient instruction is given in the theory and use of electrical machinery to enable the student to use it intelligently.

In the second term of the Senior year the student is offered an elective in the branch of mechanical engineering in which he wishes to specialize.

1. *Shop Work* ..... Hours as assigned.

(a) Woodworking. Principles of carpentry and joinery; exercises in wood turning.
(b) Founding. Green sand molding. Melting and pouring brass and iron.
(c) Forging. Management of fire; drawing and welding; riveting and tempering; casehardening and annealing.
(d) Patternmaking. Practice in making patterns; care and use of woodworking machinery.
(e) Ironworking. Chipping, filing, turning, planing, drilling, grinding; erection of machinery.
(f) Advanced work in any of the above courses.

2. *Mechanical Drawing.*

Geometrical drawing; copying machine drawings; working drawing from machine parts; tracing; blue printing. One year, four hours per week.

3. *Machine Design* ..... 2 and 3

Kinematics of machinery; design of gear teeth, cams, link motions, etc. Two hours' recitation per week. One hour's recitation; four hours' drawing per week, second term. Text-book: Machine Design, Smith.

4. *Mechanics and Hydraulics* 4

Statics and dynamics; strength of materials; hydraulics. Four recitations per week for one year. Text-book: Mechanics of Materials and Hydraulics, Merriman.

4a. *Elementary Mechanics* 3

An elementary course in mechanics and hydraulics.

5. *Steam Machinery* 3

Elementary thermodynamics; history of the steam engine; comparison of types of steam engines, boilers, pumps, etc., valve gears. Text-books: Steam Engine, Ewing; Valve Gears, Halsey. Three recitations per week.

6. *Experimental Engineering* 2

Calibration of engineering instruments, indicators, steam gauges, planimeters, nozzles, weirs, etc.; tests of the materials of construction in tension, torsion, compression, and bending; complete engine and boiler trials; special investigations. Text-book: Experimental Engineering, Carpenter. Four hours laboratory work per week.

7. *Steam and Gas Engines* 4

Theory of steam and gas engines; problems in steam engine and boiler design. One recitation, three hours drawing.

8. *Hydraulic Machinery* 2

A study of the design, construction, and operation of water wheels and pumping machinery. Two recitations per week, second term.

9. *Cotton Gins, Compresses and Oil Machinery*....2

Lectures on the machinery now in use and discussion of improvements. Two hours per week, first term.

10. *Refrigerating Machinery* 2

Comparison of the machinery used in the different systems; methods of ice making; cold storage. Two lectures per week, second term.

11. *Heating and Ventilating* 2

Principles of ventilation; the different systems of heating, by steam, hot water, and air; specifications. Textbook: Heating and Ventilation, Carpenter. Two hours per week, second term.

[Courses 10 and 11 will not both be given in the same year; they may be taken together as one two-hour course.]

12. *Steam Engineering* 4

Mechanical engineering of power plants; selection of machinery for the equipment of power stations; plans and specifications. One lecture, and six hours' drawing per week, second term.

13. *Machinery and Mill Work* 4

Discussions of the different methods of distributing power in mill work; considerations controlling the design of the power plant; specifications. One hour lecture, and six hours' drawing per week, second term.

14. *Railroad Engineering* 4

Design and construction of locomotives; repairs for rolling stock; discussion of the problems relating to the mechanical engineering of railroads. One hour lecture, and six hours' drawing per week, second term.

Courses 9 to 14, inclusive, are open to Engineering Seniors.
The department reserves the right to withdraw any course not elected by four or more students.

COURSE IN MECHANICAL ENGINEERING FOR THE DEGREE OF B. M. E.

	Hours per week.
FRESHMAN YEAR.	
Mathematics 1 and 2	5
English 1	3
Physics 1	3
Mechanical Drawing, M. E. 2	2
Shop Work	3
SOPHOMORE YEAR.	
Mathematics 4 and 5	5
Chemistry 1	3
C. E. 1, first term, and E. E. 2, second term	2
Physics 2 or Modern Language	3
Shop Work	3
JUNIOR YEAR.	
Mathematics 6	3
M. E. 5, Steam Machinery	3
M. E. 6, Mechanical Laboratory	2
M. E. 4, Mechanics	4
M. E. 3 and Shop Work	5
SENIOR YEAR.	
M. E. 6, Mechanical Laboratory	2
M. E. 7, first term, Steam Engine	4
M. E. 8, second term, Hydraulic Machinery	2
E. E. 12, Electrical Machinery	3
E. E. 5, Electrical Laboratory	2
Elective	7
Thesis, second term	2

All elections to be made subject to the approval of the Professor of Mechanical Engineering.

MECHANIC ARTS COURSE.

This course is designed to meet the wants of two classes of students:

First. Those who are not able to spend the time required for the completion of the four years' course.

Second. Those who lack the necessary preparation for admission to collegiate classes, and do not wish to become candidates for a degree.

Special attention is given to instruction in shop work and drawing, sufficient time being given to the former to enable a student to become familiar with all its branches, and acquire proficiency in some chosen one. The time spent in the drawing room will enable the student to make and understand the machine drawing.

In the last year the technical instruction is designed to give such an elementary knowledge of mechanics, machine design, and steam machinery, as will enable the student to use and care for machinery intelligently. No diploma is awarded, but a certificate of proficiency will be given on the completion of the course.

FIRST YEAR.	Hours per week.
Mathematics, second year preparatory	5
English, first or second year preparatory	4
Shop Work	6
SECOND YEAR.	
M. E. 4 a, Mechanics and Hydraulics	3
Physics 1	3
M. E. 2, Mechanical Drawing	4
Shop Work	6

THIRD YEAR.

M. E. 3 and 5, Machine Design and Steam Machinery	5
M. E. 6, Mechanical Laboratory	2
E. E. 12, Electrical Machinery	3
E. E. 5, Electrical Laboratory	2
Elective	3

CIVIL ENGINEERING.

J. J. Knoch, Professor.

V. H. Cochrane, Instructor in Drawing.

H. M. Hudgins, Instructor in Stereotomy and Drawing.

Carl L. Sadler, Instructor in Surveying.

The design of this department is to furnish a course of theoretical instruction, accompanied by illustrations and as much of engineering practice as can well be taught in schools. This course will give the student a knowledge of the fundamental principles required to enter intelligently upon the various branches of engineering belonging to this profession.

The special technical studies, which are offered in this course, may be grouped under the heads of Surveying, Applied Mechanics, Road and Railroad Engineering, Hydraulic Engineering, Bridge Engineering, and Sanitary Engineering.

Instruction. The work in Surveying extends over three years. It embraces land surveying, leveling and United States public land surveys during the Sophomore year; topography, railroad reconnoissance and location during the Junior year; triangulation and geodesy during the Senior year. Much time is devoted to practice in the field and drafting room, this work being

carried on parallel with the class-room work. Each year a party of engineering students go into camp one week for practice in surveying and locating railway lines.

1. *Descriptive Geometry.* 2

   Recitation and practice, first term. Text-book: Church's Descriptive Geometry.

2. *Surveying* 3

   First, and part of second, term. Care, use, and adjustment of instruments; use of chain, tape, compass, transit, solar attachment, level, sextant, and plane table; land surveying, leveling, contouring, laws and instructions relating to surveys of the public domain. Text-book: Raymond's.

3. *Field Practice* 2

   Exercises in land, city, and topographical surveying.

4. *Highways* 1

   One hour per week, second term. The location, construction, and maintenance of common, Macadam, and Telford roads; brick, stone, wood, and asphalt pavements for city streets. Text-book; Spalding's Roads, Streets and Pavements.

5. *Railroad Engineering* 2

   Two hours per week throughout the year. Preliminary surveys and location; transition curves, yards and turnouts; estimates of earthwork and material used in construction; the economics of railway location and management. Text-books: Searle's Field Engineering, and Crandall's Transition Curve and Earthwork Computations, first term; Wellington's Economic Theory of Railway Location, second term.

6. *Field Practice* 2

Location of curves, turnouts, and Y's: measurement of embankments and cuts, and computation of volumes.

7. *Railroad Survey.*

One week, twelve hours per day. Actual field practice in reconnoissance, preliminary survey, and location.

8. *Drawing* 2

Lettering titles for maps and drawings. Pen and colored topography.

8. (*a*) *Drawing* 2

Lectures and practice two afternoons a week throughout the year. Shades, shadows, and perspective. Topographical and railroad maps from actual surveys.

9. *Masonry Construction* 2

Two hours per week, first term. Use of lime and hydraulic cement mortars: stone and brick masonry foundations; foundations in soft materials on land and under water; cofferdams, cribs and caissons. Text-book: Baker's Masonry Construction.

10. *Roofs and Bridges* 3

Four hours per week, first term; three hours, second term. Theory of computation of stresses by both analytical and graphic methods; full computations, designs, and bills of material for a roof truss and railroad bridge. Text-books: Merriman and Jacoby's Roofs and Bridges, Parts I and II.

11. *Sanitary Engineering* 2

Two hours per week, first term. Calculation and special details of construction of sewers, separate and combined systems of sewerage; purification of sewerage; municipal and domestic sanitation. Text-book: Baumeister's Cleaning and Sewerage of Cities.

12. *Technical Drawing* 2

Lectures and practice, four hours per week throughout the year. Right and oblique arches; masonry dams; structural details and working drawings for designs.

13. *Waterworks Engineering* 2

Two hours per week, second term. Study of systems of water supply; collection, purification and distribution of water; location of waterworks, with details of estimate of cost. Text-book: Fanning's Hydraulic and Water Supply Engineering.

14. *Engineering Laboratory* 2

Two hours per week, first term. Test of strength and other properties of materials of construction; tensile and crushing tests of brick, stone, and cement; flow of water through pipes, elbows, valves, and measurement by means of weirs.

15. *Field Practice* 2

Two hours per week, first and second term. Topographical survey, triangulation, and leveling.

COURSE IN CIVIL ENGINEERING FOR DEGREE OF B. C. E.

	Hours per week.
FRESHMAN YEAR.	
Mathematics 1, 2	5
Chemistry 1	3
English 1	3
C. E. 8, Lettering	2
Drawing	2
SOPHOMORE YEAR.	
Mathematics 4, 5	5
C. E. 2, 3, Surveying	3
English 2, French, German or Spanish 1	3
Physics 1	3
C. E. 1, Descriptive Geometry, first term	2
C. E. 4, Highway Construction, second term	1
Architectural Drawing, second term	1

JUNIOR YEAR.

Mathematics 6, Calculus	3
M. E. 4, Mechanics and Hydraulics	4
C. E. 5, Railroad Engineering	2
C. E. 6, Field Practice	2
C. E. 8 a, Technical Drawing	2
*Elective	4

SENIOR YEAR.

C. E. 15, Field Practice	2
C. E. 14, Engineering Laboratory, first term	2
C. E. 11, Sanitary Engineering, first term	2
C. E. 12, Technical Drawing	2
C. E. 13, Waterworks Engineering, second term	3
C. E. 9, Masonry Construction, first term	2
C. E. 10, Roofs and Bridges	4 and 3
Geology 5, Blowpipe Analysis, second term	2
*Elective	3
Thesis	

ELECTRICAL ENGINEERING.

H. N. Gladson, Professor.

W. A. Treadway, Adjunct Professor.

Two courses of instruction are offered. The four years' course is intended to afford a good general education, and at the same time to ground the student so thoroughly in the principles of Electrical Engineering as to furnish a good foundation for the profession.

Theoretical and applied electricity and the mechanics of engineering are naturally the leading subjects.

Theory is amply treated and tested by experiments in well equipped laboratories, thus affording the stu-

*Electives can only be taken on approval of the Professor.

dent a degree of facility in the use of instruments and machines, which is acquired only by continued practice. As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of special study. The subject of such study must lie within the field of Electrical Engineering. It must be announced not later than the beginning of the second term of the Senior year, and be approved by the Professor in charge. The completed thesis must be submitted not later than two weeks before commencement day, and one copy must be deposited in the Library as the property of the University.

The short course, of two years, is designed for students lacking time and preparation for the full course, and is intended especially for those students who have had some practical experience in engineering. The work is more elementary than in the long course, embracing only the necessary mathematics, which, with physics, electrical engineering and laboratory work, gives the student sufficient theory, supplemented by practice in the shortest possible time.

This course prepares students for practical work, such as superintending or managing lighting, power, or manufacturing plants. It does not lead to a degree, but a suitable certificate will be given on completion of the work.

1. *Electrical Engineering* 5

Recitations, lectures and practice five times a week throughout the year. Installation and operation of electrical machinery; Underwriters rules; calculations; estimates; specifications and practical work. Text-book: Management of Dynamos and Motors, by Croker & Wheeler.

Professor Gladson.

Adjunct Professor Treadway.

2. *Electrical Measurements* 2

Recitations and practice twice a week, second term. Text-book: Electrical Measurements by Carhart and Patterson.

Professor Gladson.

3. *Technical Drawing* 2

Lectures and practice two afternoons a week throughout the year. Working drawings of electrical apparatus; wiring plans designed by student.

Adjunct Professor Treadway.

4. *Technical Drawing* 2

Lectures and practice six hours a week throughout the year; an extension of Course 3, and must be preceded by it. Drawings of circuit and machine, electrical calculations, and mechanical designs of electrical machinery; complete power plants designed by student.

Professor Gladson.

5. *Electrical Laboratory* 2

One afternoon a week throughout the year. An extended course in magnetic and electrical measurements; current, electro-motive force, and resistance; use and calibration of instruments, voltmeters, and potentiometers; exploration of magnetic fields; dynamo work begun.

Adjunct Professor Treadway.

6. *Electrical Laboratory* 4

Two afternoons a week throughout the year. This is an extension of Course 5, and must be preceded by it. A full experimental course in operating and testing direct and alternate current machines; Photometry transmission, storage, and transformation of electric energy. Special courses given suited to the preparation and object of the student.

Professor Gladson.

7. *Dynamo and Electrical Machinery* 3

Recitations. Three hours a week throughout the year. Confined chiefly to direct current apparatus, including types of motors, generators, and transformers; design, calculations, construction, testing, and operating. Text-book: Thompson's Dynamo Electric Machinery.

Professor Gladson.

8. *Theory of Alternate Currents* 2

Recitations three times a week, first term. Text-book: Steinmetz.

Professor Gladson.

9. *Polyphase Electric Currents* 2

Recitations and lectures three times a week, second term. Text-book: Thompson.

Professor Gladson.

10. *Electric Railways* 2

Recitations and lectures twice a week, second term.

Professor Gladson.

11. *Telephony and Telegraphy* 2

Lectures and recitations twice a week throughout the year. Text-book: Preece's Telephone.

Professor Gladson.

12. *Electrical Machinery* 3

Recitations three times a week on Direct and Alternate Current Dynamos and Motors; their application to light, power, railway, mining and manufacturing. Text-book: Dynamo Electric Machinery by S. Sheldon.

Adjunct Professor Treadway.

COURSE IN ELECTRICAL ENGINEERING FOR THE DEGREE B. E. E.

	Hours per week.
FRESHMAN YEAR.	
Mathematics 1, 2 (Solid Geometry, Trigonometry, Algebra)	5
English 1 (English Grammar, American Literature)	3
Physics 1 (General Physics)	3
M. E. 2 (Mechanical Drawing)	2
*M. E. 1 d, b (Shop Work)	3
SOPHOMORE YEAR.	
Mathematics 4, 5 (Determinants, Analytic Geometry and Spherical Trigonometry, Calculus)	5
Chemistry 1 (General Inorganic Chemistry)	3
C. E. 1 (Descriptive Geometry) or (Architectural Drawing), first term, and E. E. 2 (Electrical Measurements), second term	2
*M. E. 1 c, e (Shop Work)	3
One of the following three-hour courses:	
Physics 2, Electricity and Magnetism. English 2, Rhetoric and English Literature. German 1, Elementary Course. French 1, Elementary Course. Spanish 1, Elementary Course	3
JUNIOR YEAR.	
Mathematics 6 (Calculus)	3
E. E. 7 (Dynamo Electric Machinery)	3
E. E. 5 (Electrical Laboratory)	2
E. E. 3 (Technical Drawing)	2

* Students who have credit for M. E. 1 d, c, d, in the Preparatory School will be required to take M. E. 1 e, three hours a week for one year only.

M. E. 4 (Mechanics and Hydraulics) 4
M. E. 5 (Steam Machinery), second term, and Chemistry 14 (Electro-Chemistry), first term 3

SENIOR YEAR.

E. E. 8 (Alternate Current Theory), and E. E. 9 (Polyphase Electric Currents) 3
E. E. 6 (Electrical Laboratory) 4
E. E. 4 (Technical Drawing) 2
E. E. 11 (Telephony and Telegraphy) 2
E. E. 10 (Electric Railways) 2
M. E. 6 (Mechanical Laboratory) 2
Thesis .....

SHORT COURSE IN ELECTRICAL ENGINEERING.

FIRST YEAR. Hours per week.

E. E. 1 (Electrical Engineering) 5
E. E. 3 (Technical Drawing) 2
Physics 1 (General Physics) 3
M. E. 4a (Elementary Mechanics) 3
*M. E. 1 d, b (Shop Work) 3

SECOND YEAR.

E. E. 12 (Electrical Machinery) 3
E. E. 4 (Technical Drawing) 2
E. E. 11 (Telephony and Telegraphy) 2
E. E. 5 (Electrical Laboratory) 2
M. E. 5 (Steam Machinery), and M. E. 6 (Mechanical Laboratory), or E. E. 6 (Electrical Laboratory) 3
*M. E. 1 c, e (Shop Work) 3

*Students who have credit for M. E. 1 b, c, d, in the Preparatory School will be required to take M. E. 1 e, three hours a week for one year only.

†Candidates for admission to this course will be required to pass the examinations for admission to the Freshman Class in English and Mathematics only.

AGRICULTURE AND HORTICULTURE.

Upon the satisfactory completion of the regular course in Agriculture the degree of Bachelor of Scientific Agriculture, or Bachelor of Science is conferred. The course in Horticulture also leads to the degree of Bachelor of Science. A two years' course is provided in each department for those students who cannot remain to complete the regular course.

The full course in Agriculture and Horticulture is intended to afford a training as broad as any other course of study, and equal in educational value. Practical Agriculture is an art, but in this field as well as in Horticulture, the art is based upon principles derived from a number of sciences.

The course of instruction, therefore, aims throughout to give the student a grasp of these fundamental principles and at the same time furnish opportunity for observing their practical application to the extent of rendering him in large measure independent of mere arbitrary rules of practice. The student is encouraged to discover, plan, and execute for himself, and he is materially aided in such efforts by the knowledge, both theoretical and practical, derived from his daily association with specialists in the lines which he is pursuing.

In so far as possible practice in the more important operations and methods is required of students as a supplement to class-room instruction. Each student is expected to acquire a degree of practical skill,

to learn the use and care of implements and machinery, and a knowledge of the best methods.

Some of the subjects included in the courses are of value to students in other departments as part of a liberal education.

AGRICULTURE.

C. L. Newman, Professor.

1. *Introduction.*

Definition of scope of subject; relation to science, history, etc.

(*a*) *Soils.*

Origin, classification, properties, relation to climate and crops; drainage; irrigation; hygiene and general management of soils; special management for special purposes.

(*b*) *Farm Crops.*

Farm manures and germ manuring; preparation and culture; food-plants, forage and hay plants, root crops, pastures; textile, oil and sugar plants; harvesting.

2. (*a*) *Farm Buildings, Machinery and Tools.*

Construction and management of stables, barns, dairies, silos, piggeries, sheepfolds, poultry houses; farm fences and roads. Management and utility of farm machinery and tools.

(*b*) *Zootechny.*

Breeds and breeding of horses, cattle, sheep, swine, goats, poultry, etc., and their specific and general management; aviculture; pisciculture; insecticides.

3. *Rural Economy.*

Farm rules and management; hired labor; farm accounts; markets and marketing; meteorology.

COURSE IN AGRICULTURE FOR THE DEGREE OF B. S.

	Hours per week.
FRESHMAN.	
Mathematics 1	3
German 1	3
English 1	3
Chemistry 1	3
Biology (Botany) 2	3
SOPHOMORE.	
Mathematics 3	3
German 2	3
English 2	3
Physics 1	3
History or Economics	2
Agriculture 1	3
JUNIOR.	
History or Economics	3
English 4	2
Chemistry, Agricultural	3
Bacteriology and Hygiene	2
Agriculture 2	2
Elective	5
SENIOR YEAR.	
English 6	1
Philosophy	3
Horticulture 1	3
Agriculture 3	2
Elective	6

COURSE IN AGRICULTURE FOR THE DEGREE OF B. S. A.

FRESHMAN.

Mathematics 1	3
English 1	3
Chemistry 1	3
Botany	3
Shop Work	2
Drawing	1

SOPHOMORE.

Mathematics 3	3
English 2	3
Physics 1	3
History or Economics	2
Horticulture 1	3
Agriculture 1	3

JUNIOR.

English 4	2
Chemistry, Agricultural	3
Bacteriology and Hygiene	2
Biology or Geology 1 or 2	3
Agriculture 2	2
Elective	3

SENIOR YEAR.

English 6	1
Philosophy	3
Horticulture 2	2
General Entomology	3
Agriculture 3	2
Elective	5

HORTICULTURE.

ERNEST WALKER, Professor.

1. (*a*) *Physiology of Plants.*

A study of the subject from the horticultural standpoint.

(*b*) *The Principles of Plant Breeding.*

Environment, variation, heredity, cross-pollination, selection, improved varieties, evolution of fruits and vegetables.

2. (*a*) *Horticultural Structures and Conveniences.*

Hotbeds, cold frames, pits, greenhouses; materials, construction, greenhouse heating, ventilation, management, implements.

(*b*) *Propagation of Plants.*

The various methods by which plants are multiplied; spores, seed, cuttings, budding, grafting; transplanting.

(*c*) *Vegetable Gardening.*

Studies in the growing and forcing of the principal vegetables adapted to the State, for home use and market; with special attention to methods of marketing.

3. (*a*) *Fruit Culture.*

Orcharding, viticulture, small fruits, with reference to kinds and varieties best adapted to the State; cultivation, marketing, etc.

(*b*) *Vegetable Pathology.*

The commoner plant diseases and insect pests of trees and garden plants; spraying and other methods of control.

(*c*) *Decorative Gardening.*

Lawns, flowers, shrubs, trees adapted to the improvement of the home grounds, school grounds and park. Selection, propagation, arrangement, care.

(*d*) *Forestry.*

A study of the forest trees of the State, and forestry matters from an economic standpoint.

COURSE IN HORTICULTURE FOR THE DEGREE OF B. S.

	Hours per week.
FRESHMAN.	
English 1	3
German 1	3
Chemistry 1	3
Mathematics 1	3
Biology (Botany) 2	3
SOPHOMORE.	
English 2	3
German 2	3
Physics 1	3
Mathematics 3	3
History or Economics 1	2
Horticulture 1	3
JUNIOR.	
English 4	2
Chemistry, Agricultural	3
History or Economics	3
Geology 1	3
Horticulture 2	2
Elective	4
SENIOR YEAR.	
English 6	1
Philosophy	3
Agriculture 1	2
Horticulture 3	2
Elective	8

MILITARY SCIENCE AND TACTICS.

CAPTAIN GEORGE K. SPENCER, U. S. Army.

1. *Practical Work* 3

Three hours per week. In school of the soldier, squad, platoon, company, and battalion, close and extended order; ceremonies of grand mounting, dress parade, inspection and review; camping, guard duty, target practice, laying out field works, and signaling. In this work the cadet officers act as instructors, thus putting into practice the knowledge gained in previous years.

2. *Recitations and Lectures* 1

One hour per week. Infantry Drill Regulation (U. S. Army, Part 1). Manual Guard Duty (U. S. Army).

3. *Recitations and Lectures* 1

One hour per week. Infantry Drill Regulation (U. S. Army, Part 2). Small Arms Firing Regulations (Blunt).

4. *Recitations and Lectures* 1

One hour per week. Military Field Engineering (Beach). Military Signaling (United States Army Signal Code).

5. *Recitations and Lectures* 1

One hour per week. Service of Security and Information (Wagner). Military Law (Winthrop).

MUSIC.

PIANOFORTE DEPARTMENT.

*MR. AND MRS. E. L. BUSCH.

MISS ANNA H. EDMISTON.

Grade I.

Clavierschule, H. Wohlfahrt Bellaks Method; Koehler Op., 204; Loeschhorn Op., 186; Gurlitt Op., 178; Reinecke

*Mr. and Mrs. Busch resigned January 1, 1901.

Favorite Melodies, including finger exercises and Scales, Arpeggios, etc.

Grade II.

Clementi Op., 36; Kuhlau Op., 55; Doring Etudes; Lemoine Op., 37; Lichner Pieces; Gurlitt Album Leaves; Jadassohn Spring Flowers; Kullack Scenes from Childhood; Spindler Op., 93; Little Dances.

Grade III.

Duvernoy Op., 120; Doring Op., 8; Behrens Op., 79; Bertini Op., 100; Loeschhorn Op., 65; Bach Little Preludes; Easy Sonatas by Haydn, Mozart and Beethoven; Schumann Album Op., 68; Reinecke Op., 154; Gade Op., 36; Jensen Op., 33; Low Arranged Operatic Melodies.

Grade IV.

Behrens Op., 61, Books 3 and 4; Alois Schmitt Op., 16; Czerny Op., 299; Krause Op., 9; Bach Preludes; Beethoven, Haydn, Mozart Sonatas, Gade Op., 18; Mendelssohn Songs Without Words; Grieg Op., 3, Op., 17; Jensen Wanderbilder, Kirchner Album Leaves, Modern and Popular Music.

Grade V.

Cramer Studies, Czerny, Op., 740; Bach Well Tempered Clavichord, Steibelt 78; Weber Rondo in Eb.; Sonatas by Hummel, Scarlatti, Beethoven, Schumann Op., 32; Schubert Op., 94; Schumann, Chopin, Heller, Henselt, etc.

Grade VI.

Clementi Studies, Moscheles Op., 70; Beethoven, Liszt, Thalberg, Scharwenka, Tausig, Rubinstein, Moszkowski, Tschaikowsky, Concertos, Ensemble Music, etc.

Pupils are not confined to any particular years or terms in passing from a lower to a higher grade.

*VIOLIN AND ORCHESTRAL DEPARTMENT.

E. L. Busch, Director.

Grade I.

Mazas Method; Schradieks Technical Exercises; Easy pieces, Scales and Arpeggios in the first position.

Grade II.

Mazas Method; Schradieks Exercises; Scales and Arpeggios in more difficult keys and introduction of the third position. Pieces and Studies within the first and third positions.

Grade III.

Mazas Etudes Op., 36; Dancla Compositions; Scales and Arpeggios introducing the fifth and seventh positions. Classic and Popular Music within these positions.

Grade IV.

Kreutzer Studies; Scales and Arpeggios through all positions. Sonatas, Haydn, Mozart, Beethoven. Viotti Duets; Classical and Popular Music.

Grade V.

Fiorillo and Rode Studies; Spohrs Duets. Concertos by Viotti Rode, Kreutzer and Spohr. Brilliant Duos with Piano, etc.

Grade VI.

Solo and Ensemble Music by the best Classic and Popular Composers. Modern Concertos and finishing department.

Harmony, Counterpoint and Composition taught according to Richter, Jadassohn, Oscar Paul and other authorities.

Pupils advanced from a lower to a higher grade without loss of time, and are not confined to any particular term or year.

*Offered during first term of 1900, 1901.

VOICE CULTURE AND VOCAL MUSIC.

MISS GERTRUDE CRAWFORD.

True cultivation of the voice consists in the development of pure tone, and its easy, natural use and control in singing.

Attention is given to respiration as an art applicable to singing; position of mouth and tongue, and control of the face in singing; emission of voice on vowels; exercises for uniting the registers; practice on sustained tones in the entire range of the voice; exercises in agility and velocity; exercises in articulation of consonants and vowels; study of delivery and expression; the formation of good style, etc.

Garcia's Vocal Exercises, Concone, Bordogni, Marchesi, Panseron, and other technical works; songs of the English, Italian, French and German Schools; church music; study of opera and oratorio.

TERMS.

18 weeks, two lessons per week, Pianoforte and Voice Culture, each	$22.50
Harmony in class	5.00
Use of pianoforte for practice, one hour daily	2.50

Tuition payable in advance.

No deduction will be made except in case of prolonged illness.

Instruction in Guitar and Mandolin playing given.

ART DEPARTMENT.

*Mrs. Jenny Delony Rice, Director.

(Student of the "Beaux Arts for Women" and "Julien" Ateliers, Paris.)

Miss C. S. Bredin, Director.

Branches Taught.

Charcoal, crayon, pencil, pen and ink drawing, oil, water color and pastel, painting.

Special classes in industrial designing and illustrating, ornamental and decorative work.

The Art Club for study and quick sketching meets once a week, when lectures are delivered on Art History.

The full course covers four years, but students will be advanced individually, and no hindrance will be imposed upon those who can complete the course in less time.

COURSE OF STUDY.

First Year.

Elementary Drawing—Light and Shade.

1. Construction of lines.
2. Drawing in outline from geometric solids.
3. Drawing in outline from casts.
4. Drawing in outline from still life.
5. Study in light and shade.
6. Perspective, theory and applied.

Second Year.

Drawing and Painting.

1. Still life groups from objects.
2. Landscapes from studies and nature.
3. Fruit, flowers and foliage from nature.
4. Perspective, lights and shadows.
5. Designs for wallpaper, carpets, etc.
6. Historic ornament, decoration.

*Absent on leave.

Third Year.

PAINTING IN OIL, WATER COLORS AND PASTEL.

1. Heads from the cast, shaded.
2. Figures from the antique, shaded.
3. Still life studies in oil, water color or pastel.
4. Fruits and flowers from nature.
5. Landscape from nature and studies.
6. Original composition and design.

Fourth Year.

PORTRAITURE FROM LIFE, FIGURE AND LANDSCAPE PAINTING—BOOK ILLUSTRATION.

1. Portraits from life.
2. Animals, landscape, marine.
3. Interior decoration.
4. Composition, genre subjects.
5. Illustration of books, magazines, etc.
6. Practical and applied design.

TERMS.

1. Terms to be arranged with the Director of the Department.

Pupils will consult Mrs. Rice with regard to the Department and materials needed.

ELOCUTION, ORATORY.

1. It is the aim of this department to give such a course of instruction and training as will lead to ease, naturalness and correctness in the expression of thought. To accomplish this, the special endowments of each student are to be carefully regarded.

2. The term "Expression" as now used comprehends the following subdivisions:

(*a*) *Elocution, or Expression by Means of the Voice.*

(*b*) *Oratory and Public Speaking.*

(*c*) *Reading.*

(*d*) *Pantomime or Gesture—Expression by Means of Body.*

(*e*) *General Culture.*

Training in the following courses will be given:

The Teacher's Course.

Training for thorough understanding and mastery of vocal principles as applied to speaking (and reading).

Technical training for bodily responsiveness (gesture).

Special work for developing harmony between mind, body, and voice. (The ultimate aim, Poise of Being.)

Careful investigation of natural principles underlying true development of ease in expression.

Application of advanced methods in education in teaching expression.

Study of literature as related to expression.

The Public Reader's Course.

Training to develop plasticity of voice.

Study of the principles of Nature and Art in their relation to expression as an aid in awakening artistic instinct.

Study of literature in relation to expression.

Characterization and dramatic work.

The relation of the speaker to the audience.

Oratory or Public Speaking.

Training the mind to keener appreciation of higher truths in all the relations of life.

Systematic and individual training of voice and body to develop ease and naturalness, and to stimulate universal sympathy.

Training for proper action of mind in speaking. Development of ease in speaking before an audience.

Work for ease in extemporaneous speaking.

Work to develop quickness and accuracy in debate.

All training in accord with nature's intention and to overcome mechanical expression.

General Culture Course.

Training for ease and grace of bearing.

Correctness and pleasantness in use of the voice.

Development of taste and artistic instinct.

Technical training for each course is arranged by steps to be mastered in order.

The mastery of each course comprehends the work of three years, beginning with students advanced to the degree in regular University course.

Three certificates of proficiency are awarded:

General Culture.
Teachers.
Public Speakers.

The student completing the full course receives an artistic diploma.

PHYSICAL CULTURE.

It is a well-known principle among educators that correct training is based upon co-ordinate development of body and mind.

The work in this department is to develop and strengthen the pupils normally.

Systematic and careful training is given according to individual needs. The course is adapted from—

Educational—German, Swedish, American.
Aesthetic—Delsarte.

The gymnasium is furnished with modern apparatus.

TEACHERS' NONRESIDENT COURSES.

The University offers special opportunities to all teachers in Arkansas. It will admit them to its regular examinations for admission to the Freshman class, or will send the examination questions to county examiners, who will submit them to teachers under the usual rules and return answers to the University. Teachers who pass the required entrance examinations may then matriculate and enter upon nonresident courses of study under the direction of the University Professors; and upon completion of one term's work in any branch, they will be examined upon said work and credited with it, if it comes up to the University standard.

After finishing three-fourths of the course for a bachelor's degree, such teacher-students may graduate by completing the course as regular resident students.

Nonresident study is pursued under disadvantages, and none but energetic and methodical persons, who are willing to practice much self-denial, can succeed in such work. Such courses of study are in many respects less thorough than study under regular instruction at the University. Yet thousands of persons who cannot attend college regularly are thus educating themselves; and the self-reliant habits of study and investigation acquired by successful work of this kind are of untold value.

Teachers accepting this offer must obtain not less than two credits (two subjects passed for one term, or one subject for two terms), each year; else their names will be dropped from the rolls. Teachers whose vacation occurs during the session of the University may supplement their nonresident study by attending the regular classes.

COURSE IN MUSIC, ART AND ORATORY.

The following course has been provided for such students as do not desire to pursue a regular course leading to a degree, but who wish to prosecute the study of Music, Art or Elocution, together with certain studies in Language and History.

	Hours. per week
FIRST YEAR.	
Music, Art or Oratory	6
English 1	3
History 1 and 4	3
Ancient or Modern Language	3
SECOND YEAR.	
Music, Art or Oratory	6
English 2	3
History 2	3
Ancient or Modern Language	3
THIRD YEAR	
Music, Art or Oratory	6
English 3 or 4 and 7	3
History 3 and 5	3
Elocution	3

1. As a prerequisite for admission to the above course the student must complete all the work in one of the courses in the Preparatory Department or its equivalent, as attested by an examination or diploma from an accredited school.

2. A certificate will be awarded each student who completes the course, but this certificate shall not confer on the owner any of the privileges of alumni or alumnae of the University.

Should a student pursuing this course desire to change to a regular course leading to a degree, credit will be given for the studies completed in the above course, except Music, Art and Oratory.

PREPARATORY SCHOOL.

INSTRUCTORS.

W. A. Crawford, Principal (absent on leave), Mathematics.

G. A. Cole, Principal, Mathematics and Bookkeeping.

Mrs. E. W. Cole, History, Physiology and Latin.

Naomi J. Williams, Latin and History.

Jobelle Holcomb, Latin and Mathematics.

Lina Reed, English and Latin.

Mary A. Davis, English and History.

Susie H. Spencer, Mathematics and Geography.

Roze E. Bennett, Mathematics and History.

B. N. Wilson, Woodwork and Foundry.

Mack Martin, Machinist Work and Forging.

Miss C. E. Breden, Drawing.

Miss Jenny Bowman, Elocution and Physical Culture.

Gertrude S. Crawford, Vocal Music.

Anna Edmiston, Instrumental Music.

The collegiate teachers of the University assist in the Preparatory School whenever needed and it is practicable for them to do so. During the past year the following officers have rendered assistance: P. H.

Walker, Physics; S. J. McLean, Civil Government; Junius Jordan, Elementary Pedagogy and School Management.

The Preparatory School is intended, first, to prepare students for any of the courses of study taught in the University; second, to furnish to those who cannot take a more extended course, as good a general education as the limited time will permit; third, to prepare teachers for the public grammar schools of the State. To secure these ends, four courses of study are offered, viz: Arts (A), Engineering (E), Science (S), and Teaching (T).

The course in Pedagogy, School Management and Methods has been arranged for students of mature age who cannot take a full course at the University, and who wish to qualify themselves for the work of teaching in the common schools. It is supplemented by practical lectures, illustrative work in primary classes, and a thorough investigation and discussion of all the methods involved in the ungraded schools.

REQUIREMENTS FOR ADMISSION.

1. *Arithmetic.* Students are examined in the whole of the Grammar School Arithmetic, and an accu-

NOTE.—Candidates for second year, general course, will be examined in Arithmetic, Algebra to fractional equations, Maxwell's Advanced Grammar, History of the United States, Descriptive Geography, Latin (Collar and Daniell), and two books of Plane Geometry.

Scientific and Engineering students are not examined in Latin, but in Physical Geography and in Bookkeeping instead. Students entering after the session has begun will be examined also in the work passed over by their clas-es.

Students who hold first grade teacher's certificates and who have had experience in teaching will be admitted to the second year class without examination. Other grades of certificates will be recognized to a certain extent in classifying students.

rate knowledge of all this is rigidly required. Teachers preparing pupils for admission should require them to learn principles and definitions accurately, and to analyze every example capable of analysis, and should give them thorough drill in mental arithmetic.

2. *English Grammar.* Maxwell's Elementary Grammar.

3. *Geography.* The whole of some complete manual of Geography.

4. *Reading, Spelling and Writing.* Proficiency in these subjects is tested by the examination in Grammar.

ORDER OF EXAMINATIONS FOR ADMISSION.

Wednesday, September 19.—9 a. m., registration of students; 1-4 p. m., Algebra and Physiology.

Thursday, September 20.—9-12 m., Arithmetic; 1-4 p. m., Geography.

Friday, September 21.—9-11 a. m., English Grammar; 11-12 m., English Composition; 1-4 p. m., United States History, General History.

DETAILED WORK OF COURSES.

FIRST YEAR.

Mathematics, 5.—Milne's Standard Arithmetic, reviewed; Milne's Academic Algebra to Fractional Equations; Beman and Smith's Plane Geometry, two books.

English, 4.—Maxwell's Advanced Grammar; Lamb's Tales from Shakespeare; four original essays per term, corrected and copied; Guerber's Myths of Greece and Rome.

Parallel Reading.—Longfellow, Courtship of Miles Standish; Cooper, Last of the Mohicans; O'Hara, Bivouac of the Dead; Whittier, Snow Bound; Hawthorne, House of Seven Gables; C. D. Warner, My Summer in a Garden; Irving,

Sketch Book; Cooke, Surrey of Eagle's Nest; Selections from Pike; Washington's Rules of Conduct; lives of the above authors.

Latin, 4.—Collar and Daniell's First Latin Book.

History, 3.—Shinn's United States History and Shinn's History of Arkansas.

Geography, 3.—Redway and Hinman's Natural Advanced Geography.

Bookkeeping, 1.—Messervey's Bookkeeping.

Woodworking, 4.—Principles of carpentry and joinery; wood turning; pattern making; cabinet work. Sickel's Exercises in Woodworking.

Freehand Drawing, 2.—Practice work; outline drawing from models and machine parts; plans, elevations, sections, dimensions, etc.

SECOND YEAR.

Mathematics, 5.—Milne's Academic Algebra, completed; Beman and Smith's Plane Geometry, completed.

English, 4.—Raub's Rhetoric; five essays per term, corrected and copied; Burke, Conciliation with America; Carlyle, Essay on Burns; Shakespeare, Julius Caesar; Milton, L'Allegro, Il Peuserosa, Comus, and Lycidas.

Parallel Reading.—George Eliot, Silas Marner; Scott, Ivanhoe; Shakespeare, Merchant of Venice; Dryden, Palamon and Arcite; Pope, Homer's Iliad, Books I, VI, XXII, and XXIV; Coleridge, The Rime of the Ancient Mariner; Tennyson, The Princess; Addison, De Coverley Papers; Goldsmith, Vicar of Wakefield; lives of the above authors.

Latin, 4.—Four books of Caesar, or an equivalent; Bennett's Grammar and Exercise Book.

History, 3.—Barnes's General History.

Physiology, 2.—Martin's Human Body.

Physics, 2.—Text to be selected; lectures and written work.

Pedagogy, 3.—Roark's Pedagogy, Gow's Morals and Manners, Life of Pestalozzi, School Interests and Duties, by King, Arkansas School Law.

Civil Government, 2.—McLeary's Civil Government, Arkansas and The Nation, and Johnson's History of American Politics.

Nature Study, 2.—This course consists of studies in general elementary natural science, or the science in the common things around us. It is intended to stimulate an interest in nature; to cultivate the power and habit of observation, and to help the student to correlate and correctly interpret what he sees.

Founding, 2.—Molding; melting and pouring brass and iron; management of cupola. Bollard's Iron Founding; lectures and practice.

Forging, 2.—Management of fire; drawing; welding; riveting; tempering. Lectures and practice.

NOTE.—In the above courses the figure after each subject indicates the number of hours per week.

SUBJECTS AND COURSES.

FIRST YEAR.

Subjects.	Hours per week.	Courses Required.			
Arithmetic	1½	A	E	S	T
Algebra	2	A	E	S	T
Geometry	1½	A	E	S	T
Grammar	4	A	E	S	T
U. S. History	3	A	E	S	T
Latin	4	A			T
Geography	3			S	T
Bookkeeping	1		E	S	T
Drawing	1		E		
Shop	2		E		

SECOND YEAR.

Subjects.	Hours per week.	Courses Required.			
Algebra	3	A	E	S	T
Geometry	2	A	E	S	T
Rhetoric	4	A	E	S	T
General History	3	A	E	S	T
Physiology	2	A	E	S	T
Physics or Nature Study	2			S	
Latin	4	A			T
Civil Government	2		E	S	T
Shop	2		E		

NOTE.— In this table: A, Arts; E, Engineering; S, Scientific; T, Teachers.

Special courses of study are not allowed in the Preparatory School, but students known to be in poor health or having physical defects which interfere with their studies, are sometimes permitted by the Faculty to defer one or more subjects of study and extend the course over a longer period.

The completion of the thirty-four hours work in one of the prescribed courses in the Preparatory School is required as a condition of promotion to the Collegiate Department. The classification, however, is governed by the rule stated under "Classification of students," page 36. Studies in lower classes have precedence of higher ones. Students cannot, therefore, omit studies in the Preparatory Department and take up collegiate studies except in such cases as may be allowed by the Faculty under paragraph 3, page 36.

The Medical School.

LITTLE ROCK, ARK.

BOARD OF TRUSTEES.

J. A. DIBRELL, M. D., Little Rock, Ark.

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JOHN L. BUCHANAN, M. A., LL. D.,
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Professor of Principles and Practice of Surgery.

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Professor of Medical Chemistry and Toxicology.

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Professor of Obstetrics.

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Professor of Materia Medica, Therapeutics, Hygiene and Botany.

E. E. MOSS, A. M., LL. B.,
Professor of Legal Medicine.

CARLE E. BENTLEY, M. D.,
Professor of Clinical Surgery, Dermatology.

JAMES H. LENOW, M. D.,
Professor of Diseases of the Genito-Urinary Organs.

ANDERSON WATKINS, M. D.,
Assistant Demonstrator of Anatomy.

WILLIAM A. SNODGRASS, M. D.,
Prosector of Anatomy.

SPECIAL CLINICAL LECTURERS.

R. W. LINDSEY, M. D.
W. P. ILLING, M. D.
E. C. WITT, M. D.

F. L. FRENCH, M. D.,
Secretary of Faculty,
Little Rock, Ark.

BOARD OF VISITORS FROM ARKANSAS MEDICAL SOCIETY, 1900-1901.

J. G. EBERLE, M. D.,
Fort Smith.

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Morrilton.

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Arkadelphia.

N. B. BEAKLEY, M. D.,

TWENTY-THIRD ANNUAL ANNOUNCEMENT

OF THE

UNIVERSITY OF ARKANSAS MEDICAL COLLEGE.

The Regular Winter Course of lectures will begin on Thursday, October 10, 1901, and continue six months.

Lectures will be delivered daily during the six days of each week.

The matriculation book will be opened from and after September 1st to students desiring to matriculate early and secure choice of seats.

In making this annual announcement the Faculty feel great satisfaction in referring to the continued success and prosperity of the Medical Department. The cordial indorsement of the Arkansas Medical Society and the generous influence of the medical profession throughout the State are highly appreciated and encourage the Faculty to continue the arduous labors they have so long and zealously maintained.

FOUR YEARS' GRADED COURSE.

First Year. Anatomy, Practical Anatomy, Physiology, Chemistry, Physics, Histology, and Medical Ethics.

Second Year. Anatomy, Practical Anatomy, Physiology, Chemistry, Materia Medica, Pathology, Obstetrics.

Third Year. Materia Medica and Therapeutics, Toxicology, Obstetrics and Diseases of Children, Phys-

ical Diagnosis, Diseases of the Eye and Ear, Practice of Medicine, Surgery.

Fourth Year. Review of all branches, Practice of Medicine, Surgery, Dermatology, Gynecology, Bacteriology, Urinology, Venereal Diseases, Diseases of the Nervous System, Medical Jurisprudence.

MATRICULATION.

As required by the rules and regulations of the "Association of American Medical Colleges," students on matriculating are required to present credentials showing that they are matriculates or graduates of recognized colleges of literature, science or arts, of high schools, academies, normal schools, or equivalent schools, or that they have teachers' certificates.

Graduates and matriculates in Medicine, Destistry or Pharmacy, on presenting credentials showing such, are exempt from the entrance examination.

To avoid delay, students entitled to matriculate *without* examination are requested to bring their certificates with them and present them on arrival at the college.

Students not entitled to exemption, as hereinbefore provided, are required to pass an entrance examination, with the following requirements: the writing of an English composition of not less than 200 words; the translation of easy Latin prose; a knowledge of the elements of Arithmetic or Algebra, and of Elementary Physics.

LOCATION.

The City of Little Rock is conveniently situated in the center of the State, and railroads enter from every direction, making it easily accessible.

It has a population of more than 40,000, and has always been classed as one of the most healthful cities west of the Mississippi River. Few places can boast of better public schools, colleges and universities than Little Rock. All the eleemosynary institutions of the State are located here. These are the School for the Blind, Deaf Mute Institute, and the Insane Asylum.

MEDICAL SCHOOL BUILDING.

The new structure is an imposing edifice, three stories in height, constructed of brick and admirably arranged for the convenience of both students and instructors.

It has a large lecture hall, a fine amphitheater with chairs, a library, a reading room, a museum, several dissecting rooms, all well lighted and ventilated. In fact, it is designed to be a modern and model medical college building. It is situated on Second and Sherman streets.

HOSPITALS.

The Logan H. Roots Memorial Hospital.—By the munificence of the late Colonel Logan H. Roots and the benevolence of his widow, the City of Little Rock is to have an elegant public hospital.

The commodious building is now completed.

The Medical Department of the University is fortunate in having this hospital situated on lots adjoining their own building, thus promising greatly increased clinical facilities.

The St. Vincent's Infirmary—formerly called Little Rock Infirmary—designed solely for the treatment of acute diseases, has a capacity of nearly a hundred beds. This hospital is splendidly equipped and furnished with modern conveniences and improvements, is in the very best sanitary condition, and under the supervision and management of trained nurses, Sisters of Charity.

This magnificent institution just completed, conveniently situated, is the finest and best equipped institution of the kind in the Southwest. The hospital is much enlarged and up-to-date in every respect.

The Pulaski County Hospital, erected at a cost of some $30,000, is a handsome brick structure, well arranged, complete in all its equipments, and has a capacity of 200 beds.

Accidents from railways, marine patients, and the sick and injured from the city, county and State, find in these hospitals shelter, food, raiment, and that Christian attention so cheering and comforting in sickness and distress.

The inmates of these different institutions embrace all classes and conditions of people—white, colored, male, female, adults and children—and with them are found almost every form of malady except quarantinable diseases, which are otherwise provided for.

"THE ISAAC FOLSOM CLINIC."

This clinic is thus designated in honor of the late Dr. Folsom, and in consideration of his liberal endowment of $20,000.

The daily instruction in this clinic is thoroughly practical, and is attended by a large number of outdoor patients from the city and surrounding country. It embraces a wide range of diseases and injuries. More than 6,000 patients attended this clinic last year.

METHODS OF TEACHING.

Instruction will be given by didactic and clinical lectures, practical work in the dissecting room, chemical and physiological laboratories, and by daily quizzes upon the subject of preceding lectures.

When the subject will admit of it, each branch will be so illustrated by means of diagrams, charts, models and instruments, as to address the understanding of the student through the medium of sight as well as hearing.

EXPENSES OF LIVING, ETC.

The expenses of living in the City of Little Rock will, of course, vary according to the views and habits of students. Good board, at the present time, including lodging, fuel and lights, may be had at a convenient distance from the College, at from $4 to $6 per week, and from $13 to $18 per month.

Students on their arrival are requested to visit the University building, corner Second and Sherman

streets, where a list of parties desiring to board medical students will be found.

Persons desiring further information are requested to address the Secretary of the Faculty.

TERMS.

The fee for a full course of lectures will be:

General Ticket	$50.00
Matriculation Ticket (paid but once)	5.00
Demonstrator's Ticket (for each course)	5.00
Hospital Ticket (each course)	3.00
Graduation Fee	25.00

No variation is made, under any circumstances, from the established fees of the College, they having been placed originally at the very lowest figure commensurate with the interests of both student and College.

For more specific information and catalogue apply to

F. L. FRENCH, M. D.,
Secretary of Medical Faculty,
Little Rock, Ark.

NOTE.—Alumni are requested to inform the Secretary of their present post-office address, and of any change of location, in order that they may have the annual catalogue forwarded to them regularly.

Law Department.

LITTLE ROCK, ARK.

JOHN L. BUCHANAN, LL. D.,
Chancellor.

J. H. CARMICHAEL, LL. B.,
Dean.

THOMAS N. ROBERTSON, LL. B.,
Secretary.

FACULTY.

JOHN FLETCHER, LL. M.,
Real Property.

J. H. CARMICHAEL, LL. B.,
Law of Contracts and Pleading.

WILBUR F. HILL, LL. B.,
Equity Jurisprudence.

JACOB TRIEBER, LL. B.,
Law of Corporations.

GEORGE W. MURPHY, LL. B.,
Law of Evidence.

TOM M. MEHAFFY, LL. B.,
Criminal Law, Practice and Procedure.

JAMES F. LOUGHBOROUGH, LL. B.,
Commercial Paper.

LEWIS RHOTON, LL. B.,
Torts.

DEADERICK H. CANTRELL, LL. B.,
Domestic Relations.

LECTURERS.

MORRIS M. COHN, LL. B.
GEORGE B. ROSE, LL. B.
JAMES H. HARROD, LL. B.
JOSEPHUS C. MARSHALL, LL. B.
EDWARD W. WINFIELD, LL. B.
HENRY M. ARMISTEAD, LL. B.

COURSE OF INSTRUCTION.

The Law Course embraces two years divided into four terms. Fall term will commence October 1 and close January 31. Spring term will commence February 1 and close June 1.

The design of this school is to afford such training in the fundamental principles of the law as will constitute the best preparation for the practice of the profession anywhere in the United States, and especially in the State of Arkansas. With this view the course of study, which is intended to occupy the student two years, will comprise the following subjects:

JUNIOR COURSE.

First Term. Contracts, Agency, Partnership, Commercial Paper, Evidence.

Second Term. Criminal Law, Pleading, Insurance, Domestic Relations.

SENIOR COURSE.

First Term. Private and Municipal Corporations, Constitutional Limitations, Equity, Torts.

Second Term. Real Property, Judgments, Bailments, Private and Public International Law, Fraud and Fraudulent Conveyances, Bankruptcy, Federal Practice.

LIST OF TEXT-BOOKS.

Tiedeman on Real Property. Greenleaf on Evidence. Bispham's Principles of Equity. Bishop's New Criminal Law. Anson on Contracts. Mechem on Agency. Mechem's Elements of Partnerships. Daniel on Negotiable Instruments. Cook on Stock and Stockholders. Lawson on Bailments. Hale on Torts. Freeman on Judgments. Schouler on Domestic Relations. Phillips on Pleading. Cooley on Constitutional Limitations. Wharton on Conflict of Laws. May on Insurance. Brandenburg on Bankruptcy. Federal Practice—Lectures.

MOOT COURTS.

Moot Courts begin with the last term of the Junior Year and continue throughout the course, and shall be termed the judicial department of the school, and shall embrace all the courts—Justice, Probate, Circuit and Supreme—all modeled according to the constitutional requirements of our State.

Supreme Court shall consist of three judges, a Chief Justice and two associates.

Circuit Court shall consist of one Judge, a clerk and a sheriff, to be elected by the students.

County and Probate Court shall consist of one Judge, a Sheriff and a Clerk, to be elected by the students.

Justice of the Peace Court shall consist of a member of the Senior Class, who shall be elected by the student body.

These courts shall be under the immediate supervision of the Dean, who will be assisted by the members of the Faculty in compiling statements of facts embracing principles of law pertaining to the respective branches under their instruction, for the use of said courts.

GOAR LYCEUM.

This society is composed of the students of both the Junior and Senior years, and meets regularly every Thursday night during the session. The exercises shall consist chiefly of theses and debates embracing subjects legal in their nature. The performance of these exercises is insisted upon by the Faculty, for such practice affords to the student that invaluable aid to learning, "to think whilst on his feet," besides giving him an easy manner of address in public speaking.

EXAMINATIONS.

Written examinations are held each term in the presence of a member of the Faculty, upon questions handed the student at the time, and on the merit of their papers students will be graded.

DEGREES.

The degree of Bachelor of Laws will be conferred upon all students who have passed an examination on each of the subjects embraced in the course, and have attained average standard grade of proficiency.

CLASS HONORS.

Honorable competition is the life of all enterprises; therefore we confer the following evidences of distinction: Upon the student attaining the highest average grade, shall be conferred the distinction of first honor man of his class; the one attaining the next highest, the second honor man; and the one making the next highest, the third honor man.

The Faculty authorize the selection of three orators to deliver orations at the commencement exercises, as follows: The Senior Class, one; the Junior Class, one; and the Goar Lyceum, one.

PROFESSIONAL ETHICS.

While endeavoring to impart legal knowledge, the fact will not be lost sight of that high moral standing is a most important requisite to a successful and honorable career, and no pains will be spared in impressing this fact upon students and inculcating a high tone of professional ethics.

EXPENSES.

Tuition, for single course, $50 per session; double course, $100 per session. Board and lodging from $15

to $20 per month. Text-books, where student desires to purchase same, $30 to $40 per course. Students are provided by the Faculty with permits to the Supreme Court Library, containing 20,000 volumes.

All communications should be addressed to

THOMAS N. ROBERTSON,
Little Rock, Ark.

Branch Normal College.

PINE BLUFF, ARK.

FACULTY.

J. C. CORBIN, A. M., Ph. D.,
Principal.

J. C. SMITH, A. B.,
First Assistant.

T. G. CHILDRESS, L. I.,
Second Assistant.

ANNA C. FREEMAN, L. I.,
Third Assistant.

LOUISA M. CORBIN,
Fourth Assistant.

C. F. HOUGHTON, A. B., M. M. E.,
Superintendent.

W. S. HARRIS,
Assistant Superintendent.

E. K. BRALY, B. M. E.,
Machine and Blacksmith Shops.

LORENZO ELLIS,
Engineer.

GENERAL STATEMENT.

The Branch Normal College is a department of the University of Arkansas, established pursuant to an act of the General Assembly of the State of Arkansas, approved April 25, 1873, and has been in operation since September 27, 1875. Its primary object is the training of teachers for efficient service in the colored public schools of the State—the law referred to having been enacted with special reference to the "convenience of the poorer classes." For the purpose of carrying out the intent of the law, tuition is made free to all appointees, the only requirements for admission being suitable age and qualification, and appointment from one of the county judges, and the payment of the entrance fee of $5. Other students pay, in addition to the above, $1 per month in advance.

LOCATION, ETC.

The school property consists of a beautiful tract of twenty acres of ground, in the suburbs of Pine Bluff, Jefferson County, Ark., and a few rods from the junction of the Missouri Pacific and the St. Louis Southwestern railroads. The school building, completed in 1881, and occupied January 30, 1882, is one of the handsomest educational edifices in the State, as well as one of the best, being steam heated, electric lighted and well ventilated. It contains one large assembly room, four recitation rooms, and cloak room for males and females. The building is of brick, with slate roof and trimmings of Alabama granite,

and cost, with improvements and furniture, $12,000. The furniture and other equipments are of the best modern style.

The dormitory, a handsome brick building of seventeen rooms, and the Mechanical Department building, are upon the same grounds.

The Normal course of study is intended to be a full equivalent to a regular college course up to and including the Sophomore year, the only difference being the substitution of Pedagogy for Greek and the higher mathematical branches. The college course adds to this the usual studies of the last two years. Fifteen classes have graduated from the institution, and the members are now occupying prominent positions in life. The number of students for the year 1900-1901 was nearly 250.

THE LIBRARY.

The library consists of over 3,500 volumes, embracing many valuable reference books, such as Appleton's Cyclopedia, Lippincott's Gazetteer, Century Dictionary, etc. It also has a fine collection of the works of standard authors—Shakespeare, Milton, Irving, Cooper, Dickens, Longfellow, Carlyle, Tennyson. The library of the Principal, embracing many valuable text- and reference books, including the Encyclopædia Brittanica, is also accessible to students. A small collection of minerals, each of which is a typical specimen, and none of which are duplicates, has been procured. During the past year a valuable supply of

apparatus has been added to the educational resources of the institution, consisting of an air pump, electrical machine, standard barometer, batteries, French microscope, X-Ray apparatus, spectroscope, sets of weights and measures, common and metric, etc. The outfit of the Mechanical Department is not surpassed, if equalled in quality, by any in the State.

The Reading Room has been fitted up in elegant style and supplied with quite a number of valuable newspapers and periodicals, many of which are furnished by their publishers. Among those on file are the *Freeman,* Indianapolis; *Western Appeal,* Minneapolis; *Gazette,* Huntsville; *The Gazette,* Little Rock; *Globe-Democrat* and *Republic,* St. Louis; *The Tyler,* Detroit, Mich.; *Popular Educator,* Boston; *Lippincott's Educational Quarterly, American Student,* New York; *Weekly Echo,* Pine Bluff; *National Baptist,* Philadelphia; *Southern Review,* Helena; *American Machinist, Scientific American, Popular Educator, Nation;* the scientific publications of the State of Arkansas and of the United States, etc.

GROUNDS, BUILDINGS AND EQUIPMENT.

Campus, twenty acres; college building (brick), six rooms; brick dormitory for girls, twenty rooms; shop building (brick, six rooms; ironclad storage building, one room; laundry, one room; machinery, value $5,000; library, 3,500 volumes; physical apparatus, $1,500; sewing machines, typewriters, equipment in art needlework department, $500; range and

cooking outfit, $300; musical instruments, piano, organs, violoncello, mandolin, flute, guitar, $1,000.

DORMITORY FOR GIRLS AND BOARDING HOUSE.

The dormitory for female students is under the supervision of the Principal and his wife. It is a handsome brick structure, sufficient for the accommodation of thirty or forty students. Board bills are payable monthly in advance, and no deduction is made for loss of time less than one week. Girls staying in the dormitory are required to keep their own rooms and the halls clean, and to assist in turn in the dining room and kitchen. They are expected to furnish their own bed clothing and are held responsible for all damage to furniture in their rooms. They are not to visit each other's rooms, except by invitation from the occupant, and two are expected to occupy one room. They are not allowed to change rooms, nor to visit in town except by permission. The charge for board, fuel and light thus far has been $8 per month, in advance, and, if possible, that price will be continued. Girls who wish to board elsewhere must obtain permission from the Principal.

DOMESTIC TRAINING, PLAIN NEEDLEWORK AND ART NEEDLEWORK.

The female students of the institution have daily training in housekeeping, plain sewing and art needlework. This department is under the superintendence of Miss Louisa M. Corbin, a graduate of Ann

Arbor, Mich. The department is equipped with a sufficient number of Wheeler & Wilson and Singer Sewing Machines and a liberal supply of all necessary accessories. Already the success of the department has been very decided, and it has had many specimens of fine work on exhibition. These students also receive daily instruction in typewriting from Professor T. G. Childress.

MECHANICAL DEPARTMENT.

The operations of this department are under the superintendence of Professor C. F. Houghton, Superintendent of Mechanic Arts at Fayetteville, assisted by Professor W. S. Harris, a graduate of the Miller Manual Labor School of Virginia, and Professor E. K. Braly, a graduate of the University of Arkansas.

The shop building was completed in February, 1892. It is of brick and covers a plot of ground 70 by 70, comprising a wood shop 35 by 35, a foundry 25 by 25, a blacksmith shop 25 by 25, and a machine shop 35 by 25; a boiler room 20 by 25, and a court 35 by 20 occupying the remaining space.

Wood Shop. Twelve benches, with complete set of tools for each, a double circular sawing machine, scroll-saw, band-saw, shaper, carving machine, buzz-planer, pattern lathe, six turning lathes, and many necessary small tools make up the equipment in this department.

Forge Shop. Twelve Buffalo forges are in position, the blast being supplied by a blower, and the

smoke drawn off by a large exhaust fan. Besides the usual outfit of anvils, hammers, tongs, etc., there is a Buffalo punch shear and bar cutter capable of cutting off 1-inch bar iron, $\frac{1}{2}$ by 3-inch strap iron, or of punching a $\frac{3}{8}$-inch hole in $\frac{3}{8}$-inch iron.

Machine Shop. The equipment consists of a 15-inch crank shaper, a 24 by 24 by 6 foot planer, a 20-inch drill press, a 15-inch by 5 foot turret lathe, a 14 by 6-inch engine lathe, a 12 by 5 hand lathe, universal milling machine, cutter and reamer grinder, twist drill grinder, power grindstone, emery grinders, benches. vises, and all small tools necessary in machine shop work.

Heating and Power Plant. This consists of two vertical engines of 12-horsepower each, two 30-horsepower tubular boilers, and a 30-light dynamo. The piping for feed water is so arranged that the water passes from either pump or injector through a feed water heater to the boilers; and the exhaust piping is so arranged that the exhaust steam from the engines can be used either to heat the feed water or to heat the shops.

Water Supply. In the court of the shop building is a 4-inch Cook tubular well, which furnishes 1,000 gallons of water per hour, delivering it to a tank thirty feet above ground, holding 8,000 gallons.

Sanitary Provisions. The shops are thoroughly well lighted, ventilated, heated, and drained. Sewer connection is made to all buildings, and the abundant

water supply is used to insure cleanliness in wash room and water closet.

The courses in the department are as follows, viz:

(*a*) A course in general shop work, extending over three years, followed by a fourth year's work in one of the shops selected by the student. The design is to enable a young man to choose his trade intelligently and to acquire a sound basis for it.

(*b*) A three years' course in general shop work, followed by a fourth year's work in the management of boilers, engines and heating systems. This course is intended to train young men for the practical work of foremen or engineers.

(*c*) A course in general shop work, extending over three years, together with class-room work in the theory and practice of teaching, followed by a fourth year's work in handling classes in the shops and in laying out series of practical exercises.

For fuller information respecting this and other departments, reference is made to the catalogue of Branch Normal College.

GENERAL EXERCISES.

In addition to the regular class exercises prescribed in the course of study, there are regular lessons in vocal music, which are open to all students. The general exercises also include a review of a Sabbath School lesson, review of the events of the week, calisthenics, music, and drawing. Music upon instruments —the organ, piano, flute, guitar, etc.—is extra, but

very reasonable in price. There are two literary societies, the Junior and Senior, which hold weekly meetings and afford excellent opportunities for practice in oratory, debate and composition. It is required that every student shall become a member and attend the meetings of one of the societies.

The length of the vacation allows the advanced students an opportunity to engage in teaching, and a large proportion of their number have done so during the last five years. In nearly all cases they have given satisfaction and conduct their schools with a fair degree of success. The Normal students have also assisted in the work of the institution itself as a part of their training.

It will be a great advantage to the institution if the various county judges will take a special interest in seeing that their counties are represented. The forms for appointments and apportionment of beneficiaries are the same as stated in this catalogue. The proper blanks for making the appointments will be furnished, together with all necessary information, on application to the Principal.

J. C. CORBIN, A. M.,
Pine Bluff, Ark.

REGISTER OF STUDENTS.

ABBREVIATIONS.—B. A., Bachelor of Arts; B. Ph., Bachelor of Philosophy; B. S., Bachelor of Science; M. E., Mechanical Engineering; E. E., Electrical Engineering; C. E., Civil Engineering.

NOTE.—The names of the students in the Medical and Law Departments at Little Rock and the Branch Normal College in Pine Bluff are not included in this Register, but are published in the special catalogues of these departments.

GRADUATES.

Name.	*Course.*	*Postoffice.*	*County.*
Barnett, C. P.	E. E.	Kansas City	*Missouri.*
Crozier, A. B.	E. E.	Chicago	*Illinois.*
Mobberly, H. P.	C. E.	Donaldsonville	*Louisiana.*
Philbeck, Robert Edward	B. A.	Fayetteville	Washington.
Pruett, W. E.	C. E.	Kansas City	*Missouri.*
Treadway, William A.	E. E.	Little Rock	Pulaski.

SENIORS.

Askew, Nancy Ellen	B. A.	Magnolia	Columbia.
Bostick, John Alexander	B. S.	Washington	Hempstead.
Brown, Harry Sanford	M. E.	Tyler	*Texas.*
Cochrane, Victor Hugo	C. E.	Gravett	Benton.
Collier, James Thomas	B. A.	Washburn	Sebastian.
Crawford, William Alfred	B. A.	Fayetteville	Washington.
Davis, Jesse H.	E. E.	Forrest City	St. Francis.
Davis, Benjamin Franklin	B. A. & B. S.	Cherokee City	Benton.
Freeman, William Albert	B. A. & B. S.	Paris	Logan.
Henderson, George De Matt	B. A.	Little Rock	Pulaski.
Hobbs, William Douglas	B. A. & B. S.	Bentonville	Benton.
Howell, Edward	B. A.	Fayetteville	Washington.
Hudgins, Walter Hamp	C. E.	Dallas	Polk.
Knott, Elmer Conway	B. A.	Bentonville	Benton.
McRae, Carleton	C. E.	Mount Holly	Union.
Mundt, Leo Joseph	B. A. & B. S.	Helena	Phillips.
Newman, Leroy Lafayette	E. E.	Magazine	Logan.
Ross, Lucy Ida	B. A.	Fayetteville	Washington.
Ross, Hervy Lonnie	B. A.	Fayetteville	Washington.
Sadler, Carl Leon	C. E.	Little Rock	Pulaski.

SENIORS.—Continued.

Name.	*Course.*	*Postoffice.*	*County.*
Sanders, Thomas Earl	B. A. & B. Ph.	Hot Springs	Garland.
Smith, Fannie Marie	B. A.	El Dorado	Union.
Stubblefield, Demie Tee	B. A.	Fayetteville	Washington.
Treadway, Theodore Charles	E. E.	Little Rock	Pulaski.
Triplett, Charles Hector	B. A.	Pine Bluff	Jefferson.
Webster, Olive S.	B. A.	Marvell	Phillips.
Wilkinson, William Norman	B. A.	Charleston	Franklin.
Wilson, Howell H.	E. E.	Russellville	Pope.

JUNIORS.

Austin, Miriam E.	B. A.	Van Buren	Crawford.
Babb, Wroten Elmer	B. S.	Fayetteville	Washington.
Barton, Richard Bethel	B. A.	Mound City	Crittenden.
Baxter, John Willard	B. A. & B. S.	Hackett	Sebastian.
Briggs, Oscar Doyle	B. A.	Garner	White.
Brown, Frederick Isaac	M. E.	Sweet Home	Pulaski.
Buchanan, Herbert Earle	B. A.	Boonsboro	Washington.
Clancy, William	C. E.	Fayetteville	Washington.
Covington, Ben Gaston	C. E.	Howell	Woodruff.
Curry, Clarence Calvin	C. E.	Fayetteville	Washington.
Daniels, Houston T.	C. E.	Little Rock	Pulaski.
Ellis, William Yancey	E. E.	Fayetteville	Washington.
Galloway, Rowena McCord	B. A.	Fayetteville	Washington.
Gibson, Freeman Irby	B. S.	Dardanelle	Yell.
Hayes, George Gordon	E. E.	Newport	Jackson.
Langford, Bertram William	B. Ph.	Bentonville	Benton.
Mesler, Rector Duvall	B. S.	Fayetteville	Washington.
Meyer, Percy Bernard	B. S.	Pine Bluff	Jefferson.
McConnell, John Lorenzo	C. E.	Huntington	Sebastian.
Mooring, Dennis Clyde	B. S.	Cotton Plant	Woodruff.
Prall, George Virgil	B. A. & B. S.	Jonesboro	Craighead.
Sedwick, Thomas Dunlap	B. A.	Bentonville	Benton.
Smith, Carl	B. A.	Stephens	Ouachita.
Stubblefield, Garfield	C. E.	Fayetteville	Washington.
Sutton, Mabel	B. A.	Fayetteville	Washington.
Vincenheller, George Ashton	B. S.	Fayetteville	Washington.
Wasson, Alfred Washington	B. A.	Elm Springs	Washington.
Wiley, Elizabeth Pearle	B. S.	Fayetteville	Washington.

SOPHOMORES.

Name.	*Course.*	*Postoffice.*	*County.*
Alden, Rathburn	B. A.	Osage Mills	Benton.
Beakley, John Dandridge	B. Ph.	Pocahontas	Randolph.
Bell, Charles Neel	M. E.	Pine Bluff	Jefferson.
Billings, Fred Merritt	C. E.	Marianna	Lee.
Blalock, John Charles	C. E.	Fayetteville	Washington.
Boyette, Margaret Jackson	B. Ph.	Hamburg	Ashley.
Brewster, Hugh	B. A.	Boonsboro	Washington.
Bryan, Lemuel Berry	C. E.	Fort Smith	Sebastian.
Cook, Birdie Bertha	B. A.	Bentonville	Benton.
Cook, La Rue Jean	B. A.	Texarkana	Miller.
Davis, Frank Hill	C. E.	Lowell	Benton.
Davis, Thomas	C. E.	Forrest City	St. Francis.
Ellis, John Robert	E. E.	Pine Bluff	Jefferson.
Gatling, Olive Gilliam	B. A.	Forrest City	St. Francis.
Harris, William Marvin	B. A.	Monticello	Drew.
Hight, William Garland	M. E.	Fayetteville	Washington.
Holt, Frederick White	B. A.	Bellefonte	Boone.
Jagersfeld, von Carl	B. S.	Washington	Hempstead.
Knott, Virgil Proctor	C. E.	Bentonville	Benton.
Leverette, Edward Vaulx	M. E.	Fayetteville	Washington.
Longino, James Leland	E. E.	Magnolia	Columbia.
McAlester, Edward W.	E. E.	McAlester	*Indian Ter.*
McGehee, Abner	B. A.	McGehee	Desha.
Melton, Hattie Clementine	B. A.	Fayetteville	Washington.
Middleton, Robert J.	C. E.	Fayetteville	Washington.
Mitchell, Samuel Alfred	B. Ph.	Fayetteville	Washington.
Muller, James Frederick	M. E.	Little Rock	Pulaski.
Moore, Nellie	B. A.	Fayetteville	Washington.
Neel, Ashbel C.	E. E.	Forrest City	St. Francis.
Norton, Edward R.	B. A.	Forrest City	St. Francis.
Quarles, Tevie Randolph	M. E.	Fayetteville	Washington.
Ramsey, Carleton Callaway	B. A.	Camden	Ouachita.
Reichardt, Walter Frederick	C. E.	Little Rock	Pulaski.
Rife, William Benjamin	B. S.	Osage Mills	Benton.
Ruggles, William Arthur	E. E.	Fayetteville	Washington.
Streepey, John Paul	B. A.	Hot Springs	Garland.
Taylor, Rupert	B. A.	Jonesboro	Craighead.
Vaulx, Susie Eugenia	B. A.	Fayetteville	Washington.

SOPHOMORES.—Continued.

Name.	*Course.*	*Postoffice.*	*County.*
Vaulx, Eleanor	B. Ph.	Fayetteville	Washington.
Watkins, Guy	C. E.	Fayetteville	Washington.
Webster, Fay	E. E.	Marvell	Phillips.
Wood, Scott	B. S.	Hot Springs	Garland.
Worthley, Guy	E. E.	Helena	Phillips.

FRESHMEN.

Abercrombie, James Scott	B. A.	Bryant	Saline.
Abernathy, Annie May	B. A.	Warren	Bradley.
Allen, Leroy Ben	E. E.	Hope	Hempstead.
Allen, John Leroy	B. S.	Fayetteville	Washington.
Archer, Elmer T.	E. E.	Little Rock	Pulaski.
Beard, Abner Hamilton	C. E.	Wynne	Cross.
Bell, Margie	B. A.	Fayetteville	Washington.
Bell, Thacher Winfred	B. A.	Benton	Saline.
Blakemore, Emma	B. Ph.	Prairie Grove	Washington.
Blanchard, Fay Holbrook	B. Ph.	Fayetteville	Washington.
Bloom, John Rhine	M. E.	Pine Bluff	Jefferson.
Bowers, Houston B.	B. A.	Panola	Lonoke.
Brown, Susie Myrtle	B. A.	Fayetteville	Washington.
Brown, Owen Rector	B. S.	Evening Shade	Sharp.
Brack, Elbert	E. E.	Little Rock	Pulaski.
Burney, Maggie Sue	B. A.	Green Forest	Carroll.
Burno, Lorena Marguerite	B. S.	Fayetteville	Washington.
Butler, Ethel	B. Ph.	Fayetteville	Washington.
Chapman, Johnson	C. E.	Lake Village	Chicot.
Chapple, Earle White	E. E.	Little Rock	Pulaski.
Clark, Elbert	B. S.	Waldo	Columbia.
Connellee, Charles Ulrich	B. S.	Oklahoma City	*Oklahoma.*
Conway, Charles Mitchell	B. S.	Washington	Hempstead.
Cotton, Maurice Lafayette	B. Ph.	Branch	Franklin.
Cunningham, Chester Rogers	B. A.	Dardanelle	Yell.
Curry, Robert Erskin	C. E.	Fayetteville	Washington.
Davies, Mary Louise	B. Ph.	Fayetteville	Washington.
Davis, Joseph Ray	C. E.	Lowell	Benton.
Droke, Marvin Josephine	B. A.	Fayetteville	Washington.
Dunn, William Forbes	B. A.	Fayetteville	Washington.
Futrall, Olie	B. A.	Marianna	Lee.
Grace, George Azariah	B. Ph.	South McAlester	*Indian Ter.*

FRESHMEN.—Continued.

Name.	*Course.*	*Postoffice.*	*County.*
Gray, Clifton Welch	B. A.	Little Rock	Pulaski.
Gray, Daniel Lewis	C. E.	Little Rock	Pulaski.
Gray, Franklin Alexander	B. A.	Hickory Valley	Independence.
Greenoe, John Covert	M. E.	Helena	Phillips.
Hamilton, Eileen	B. A.	Fayetteville	Washington.
Hemmock, Charles	B. S.	Monticello	Drew.
Harding, Arthur McCracken	B. A.	Fayetteville	Washington.
Hill, Ethel	B. A.	Fayetteville	Washington.
Hill, Hugh Beverley	C. E.	Fayetteville	Washington.
Holcomb, George Roy	B. Ph.	Fayetteville	Washington.
Holman, Louise Stuart	B. A.	Texarkana	Miller.
Holt, Charles Larkin	B. Ph.	Bellefonte	Boone.
Horsfall, John Edmund	C. E.	Hazen	Prairie.
Hudgins, Jay Guy	B. A.	Hot Springs	Garland.
Hyde, Mattie Laura	B. A.	Eureka Springs	Carroll.
James, John Milton	B. S.	Cotton Plant	Woodruff.
Johnson, William Bradford	E. E.	Clarksville	Johnson.
Jones, Effie Emma	B. A.	Fayetteville	Washington.
Jones, Lora Ruth	B. A.	Little Rock	Pulaski.
Jordan, Grace Frances	B. A.	Fayetteville	Washington.
Jordan, Henry Pope	E. E.	Little Rock	Pulaski.
Keeler, Earl L. L.	C. E.	Ithaca	*New York.*
Kimbrough, Wilson W.	B. A.	Dutch Mills	Washington.
Kimple, Benjamin Drew	B. A.	Dermott	Chicot.
Knesal, Ada Irene	B. A.	Fayetteville	Washington.
Lake, Louise	B. S.	Fayetteville	Washington.
Loper, Frank May	E. E.	Monticello	Drew.
Lyde, Montrose Graham	B. S.	Camden	Ouachita.
Maguire, Eva Josephine	B. A.	Fayetteville	Washington.
Marshall, Harry Everett	B. S.	Mansfield	Sebastian.
McAndrew, Robert Harley	E. E.	Bentonville	Benton.
McCrary, Edgar Ware	B. Ph.	Nashville	Howard.
McLaughlin, William Heber	C. E.	Little Rock	Pulaski.
Milum, Roy Wamon	B. A.	Lead Hill	Boone.
Morrow, Hugh Ellis	B. S.	Fayetteville	Washington.
Mullins, George Walker	B. A.	Fayetteville	Washington.
Neelly, John Elias	B. A.	Dardanelle	Yell.
Oakes, George Conner	B. A.	Pocahontas	Randolph.
Patterson, Anna Mae	B. A.	Fayetteville	Washington.

FRESHMEN.—Continued.

Name.	*Course.*	*Postoffice.*	*County.*
Phillips, Charles Oliver	B. Ph.	Fayetteville	Washington.
Pope, Norman Percy	B. A.	Monticello	Drew.
Pratt, Fletcher Howard	C. E.	Fayetteville	Washington.
Ragland, Henry Sparr	C. E	Fayetteville	Washington.
Rankin, Elbert Hill	B. Ph.	Russellville	Pope.
Risser, Thomas Scott	E. E.	Fayetteville	Washington.
Rosser, Annie	B. A.	Fayetteville	Washington.
Rutherford, Thomas Egbert	B. A.	Hot Springs	Garland.
Scott, Phillip Drennen	B. S.	Van Buren	Crawford.
Shellenberger, Alice	B. Ph.	Fayetteville	Washington.
Snapp, Walter Leak	B. S.	Bentonville	Benton.
Stanford, Albert Franklin	C. E.	Fayetteville	Washington.
Tate, John D.	E. E.	Siloam Springs	Benton.
Walker, John Lamar	C. E.	Dardanelle	Yell.
Wilson, Myrtle Leona	B. A.	Fayetteville	Washington.
Wolf, Herbert Harry	B. S.	Little Rock	Pulaski.
Wood, Clark	B. A.	Paris	Logan.
Wood, Charley Fox	C. E.	Paris	Logan.

NORMALS.

Name.	*Postoffice.*	*County.*
Anderson, John Clinton	Bragg	*Indian Ter.*
Cartwright, William Walter	Mountain View	Stone.
Chitwood, Zena	Dardanelle	Yell.
Forrest, Daisie	Huntsville	Madison.
Hardin, Lena Jeanne	Fayetteville	Washington.
John, Joe T	Fordyce	Dallas.
Key, Nellie Hinds	Fayetteville	Washington.
Mitchell, Brainerd	Gillett	Arkansas.
Morgan, Harvey Howard	Stephens	Ouachita.
Nelson, Rufus Jerry	De Queen	Sevier.
Peterson, William James	Vesta	Franklin.
Souter, William Edward	Moulton	Columbia.
Souter, Thomas Edwards	Magnolia	Columbia.
Swearingen, Samuel Conrad	Lee's Creek	Crawford.
Winn, Oscar H	Russellville	Pope.
Whitehead, Alexander Dixon	Taylor	Columbia.
Wilson, William Oscar	Cabot	Lonoke.
Womack, Joseph Pitts	Seba	Benton.

SPECIALS.

Name.	*Postoffice.*	*County.*
Alexander, Will Lynn (Mrs.)	Searcy	White.
Benedict, Julia May	Rogers	Benton.
Bibb, Dora Yancey	Fayetteville	Washington.
Buchanan, Frank Emerson	Fayetteville	Washington.
Chandler, Lillian	Fayetteville	Washington.
Clay, William Richard	Buck Range	Howard.
Covington, Ada Corrie	Howell	Woodruff.
Crozier, Elizabeth Ellen	Dutch Mills	Washington.
Daly, Moses Green	Bodcaw	Nevada.
Davies, Edith	Fayetteville	Washington.
Foreman, Ina	Chelsea	*Indian Ter.*
Droke, Leila Ruth	Fayetteville	Washington.
Goddard, Dora Lee	Prairie Grove	Washington.
Goddard, Kate	Prairie Grove	Washington.
Goings, John Walker	Pocahontas	Randolph.
Govan, Joseph Fincher	Helena	Phillips.
Hamilton, Mary Fort	Fayetteville	Washington.
Henderson, Samuel Lenow	Fayetteville	Washington.
Hendrix, James Thomas	Wallaceburg	Hempstead.
Herron, Mortimer Roscoe	Bentonville	Benton.
Hutcherson, Margaret	Fayetteville	Washington.
Lake, Horton Clayton	Fayetteville	Washington.
Lester, Roy	New Lewisville	Lafayette.
Martin, Noel	Orlando	Cleveland.
Mitchell, Lucian Turner	Greenway	Clay.
Munn, Malcolm John	Bodcaw	Nevada.
Parker, William Christopher	Waldo	Columbia.
Phillips, Mabel Gertrude	Fayetteville	Washington.
Prince, Anna Hoss	Conway	Faulkner.
Quesenbury, Sue Jean	Van Buren	Crawford.
Read, Florida	Fayetteville	Washington.
Smith, Minnie Belle	Fayetteville	Washington.
Stockard, George Gordon	Nevada	*Missouri.*
Swann, Elizabeth	London	Pope.
Ware, Baxter Paul	Hot Springs	Garland.
Wilson, John Rufus	Morgan	Bradley.
Worthley, Leighton Elliott	Helena	Phillips.
Yates, Hazel	Fayetteville	Washington.

ENGINEERING—Short Course.

Name.	*Course.*	*Postoffice.*	*County.*
Bell, Robert Davis	E. E.	Pine Bluff	Jefferson.
Bickel, Ackert	E. E.	Gentry	Benton.
Dowell, Ben Gray	M. E.	Fayetteville	Washington.
Dunn, James Lee	E. E.	Fayetteville	Washington.
Gladson, Arthur J	E. E	Corning	*Iowa.*
Harvey, William Renold	E. E.	Marshall	Searcy.
Honnett, Alphonze Milton	E. E.	Pine Bluff	Jefferson.
Jones, Doswell	E. E.	Fayetteville	Washington.
Kirby, William R	E. E.	Little Rock	Pulaski.
Mulkey, Madison Henry	M. E.	Mineral Springs	Howard.
Wise, Albert Henry	E. E.	Eagle Mills	Ouachita.

FREEHAND DRAWING AND ART.

Alexander, Will Lynn Mrs.
Algire, George Willard.
Ash, Walter Henry.
Austin, Hamilton L.
Beauchamp, John Lee.
Bell, Margie.
Bibb, Dorothy Yancy.
Blakemore, Emma.
Boles, Edwin Clifford.
Borders, John Malloy.
Boyette, Margaret.
Brown, M. Y. Mrs.
Bruffey, Augusta A. Mrs.
Byrne, Lloyd Randolph.
Casey, Lee Edgeworth.
Catts, Everett Campbell.
Cazort, Vivian.
Cochrane, Leroy.
Cole, Ruth.
Clark, Lula M.
Crawford, William.
Crownover, Curtis.
Dalton, Charles Edward.
Darwin, William Fulton.
Davis, John Benjamin.
Lemon, John McConnell.
Mayes, George Frank.
McGaughy, Harry G.
McKennon, Basil Clement.
Mitchell, Lucien.
Mitchell, Brainerd.
Mons, Lee Arthur.
Morrow, Donald Blackburn.
Mullins, Thomas Jefferson.
Mullins, L. C.
Neelly, Bessie.
Oates, C. E.
Payne, Samuel S.
Phillips, Mabel Gertrude.
Phillips, Grace.
Pool, George G.
Pool, R. Yates.
Pope, Arthur D.
Purdy, William Conery.
Read, Florida.
Regan, Zenas Lytton.
Roberts, John Clement.
Ross, James Edgar.
Seamans, Pinckney S.
Shultz, Howard Lee.

FREEHAND DRAWING AND ART.—Continued.

Davis, Samuel G.
Deane, Sidney.
Deane, Ruth Elizabeth.
Dedman, Ned Albert.
Eudaly, Arthur Chester.
Foreman, Ina.
Gates, Albert Lawrence.
George, Walter.
Hill, Lola Neal.
Hipolite, Charles Edward.
Holt, Stella.
Hudgins, Bessie.
Hughes, Florence Genevieve Mrs.
Jenkins, Oran Thomas.
Johnson, Zella.
Johnson, Timie A.
Jordan, E. A.
Kemp, John A. C.
Kennedy, J. P.
Kibbe, John William.
Kirksey, P. L.
Lake, Louise.
Shultz, Harvey Everette.
Sims, Albert Lee.
Smith, Minnie Belle.
Smith, Arthur Mack.
Stapp, George Harold.
Stearnes, Homer Eugene.
Stifft, Perry Williams.
Stockard, George Gordon.
Stone, W. H.
Summers, William Hamilton.
Swann, Elizabeth.
Thompson, Charles.
Trumbo, Estella May.
Vanderslice, William A.
Vaught, Esther.
Walls, Jord.
Whitlow, Charles Birnie.
Williams, Roy Welch.
Wilson, Myrtle Leona.
Wolf, Herbert Harry.
Wood, Scott.
Yates, Hazel.

INSTRUMENTAL MUSIC.

Adams, Maybelle.
Anthony, Gertrude.
Ash, Gertrude.
Bailey, Miss.
Baldwin, Henry Calvin.
Bozarth, Gladys.
Cazort, Vivian.
Covington, Corrie.
Crenshaw, Edith.
Crouch, Leslie.
Doxey, Ethel.
Foreman, Ina.
Gatling, Olive.
Gray, Lela.
Hamilton, Eileen.
Kell, Bess.
Lackey, Minnie.
Lake, Louise.
Lake, Madge.
Maguire, Eva.
Matthews, Lula.
Melton, Hattie.
Mitchell, Sybil.
Moore, Elsie.
Neelly, Bessie.
Phillips, Grace.
Quesenbury, Sue Jean.
Southworth, Mrs.
Swan, Elizabeth.
Taylor, Mattie.

INSTRUMENTAL MUSIC.—Continued.

Hight, Stella.
Holman, Louise.
Holt, Stella.
Hooper, Lillian.
Horton, J.
Johnson, Timie.
Thomas, Bessie.
Thomas, Mabel.
Vaulx, Huetta.
Wood, Cora.
Yates, Hazel.

VOCAL MUSIC.

Austin, Miriam.
Cazort, Vivian.
Chandler, Lillian.
Conner, Kate.
Covington, Corrie.
Daly, Moses Green.
Duncan, Lee Mrs.
Grace, George.
Hutcherson, Lillian.
Lake, Louise.
Lake, Madge.
Quesenbury, Sue Jean.
Vincenheller, Jeanne.

ELOCUTION, ORATORY AND PHYSICAL CULTURE.

Adams, May Belle.
Ambrose, Addie.
Anderson, M. L.
Baker, Mattie Mae.
Baldwin, Henry Calvin.
Beakley, John Dandridge.
Beakley, Burleigh Maurice.
Bird, Robert P.
Brewster, Hugh.
Brockman, Edward W.
Brown, Emma.
Buckner, George L.
Butler, Ethel.
Campbell, Mary.
Carroll, William.
Chandler, Lillian.
Cole, Ruth.
Conner, Bertha.
Cotton, M. L.
Crawford, Pearl.
Crawford, William.
Crozier, Ruth.
Jones, C. W.
Joyner, May.
Kimbrough, W. W.
Knesal, Ada.
Leverette, Nina.
Lewis, Lake.
Mackey, Laura.
Marks, Carrie.
Martin, Georgia M. Mrs.
Matthews, Lulu.
McCartney, Jessie.
McDaniel, D.
McMillan, Della.
Mitchell, Ara.
Morgan, H. H.
Neelly, Helen.
Neelly, Bessie.
Norman, Olivia.
Payne, Effie.
Pearson, John B.
Prince, Anna.
Rattenbury, Edith.

ELOCUTION, ORATORY AND PHYSICAL CULTURE—Continued.

Curry, Corrie.
Daly, M. G.
Davis, Grace.
Davis, B. F.
Doxey, Ethel.
DuLany, A. D.
Dunn, F. L.
Epstein, C.
Field, Ella.
Foreman, Ina.
Gray, Lelia.
Gregg, Mildred.
Hamilton, Mamie.
Hamilton, Eileen.
Harkey, Opal.
Harris, W. M.
Healy, Charles Mrs.
Hendrix, J. G.
Hight, Stella.
Hill, Ethel.
Hill, Hugh.
Hooper, Lillian.
Horton, J.
Hudgins, Bessie.
Hudgins, Guy.
Hutcherson, Margaret.
Johnson, Timie A.
Reed, Clifton.
Reagan, Zenas Lytton.
Reid, Charles W.
Robinson, O. T.
Ross, Emma Jewel.
Ross, H.
Rutherford, R.
Sessions, R.
Stifft, P.
Stille, Corrinne.
Swann, Elizabeth.
Taylor, R.
Thomas, Mabel.
Thomas, Bessie.
Trumbo, Stella.
Vaughan, Daisy.
Vaulx, Susie.
Wade, Lila.
Ward, Archie D. Mrs.
Wasson, A. W.
Whitehead, Nellie.
Williams, Beulah.
Wilson, W. O.
Wilson, J. R.
Winn, O. H.
Wood, Clark.
Yates, Hazel.

Preparatory School.

NOTE.—A., Arts Course; S., Science Course; E., Engineering Course.

SECOND YEAR CLASS.

Name.	*Course.*	*Postoffice.*	*County.*
Abercrombie, Bertha	A.	Pactolus	Benton.
Adams, Charles Edgar	S.	Lowell	Benton.
Ashby, Robert J.	E.	Benton	Saline.
Austin, Robert E. Lee	A.	Ozark	Franklin.
Baird, Lutie	A.	Fayetteville	Washington.
Baker, Simon Ross	E.	Fayetteville	Washington.
Baldwin, Henry Calvin	A.	Mansfield	Sebastian.
Baum, Harry	E.	Fayetteville	Washington.
Beeler, Leslie Lynn	S.	Little Rock	Pulaski.
Bell, George Henry	A.	Nashville	Howard.
Berry, Frederick Hugh	E.	Bentonville	Benton.
Birdsong, Thomas Calvin	S.	Shiloh	Cleburne.
Bobbit, James Edward	A.	Lorado	Greene.
Boles, Edwin Clifford	E.	Fayetteville	Washington.
Bradsher, Richard Albert	A.	Marmaduke	Greene.
Bridewell, Edward McRae	E.	Hope	Hempstead.
Brockman, Edward W.	A.	Garnett	Lincoln.
Brookes, Bishop	A.	Horatio	Sevier.
Burnett, Eli Lew's	S.	Sullivan	Scott.
Butler, Rupert P.	S.	Mars	Lafayette.
Caruth rs, Neil	A.	McNeil	Columbia.
Carroll, William M	S.	Jonesboro	Craighead.
Carter, Edward Leroy	S.	St. Paul	Madison.
Castleberry, William Leslie	A.	Salem	Fulton.
Clegg, Chester Bennett	E.	Siloam Springs	Benton.
Cleveland, Rhea	B.Ph.	Fayetteville	Washington.
Cleveland, George W.	A.	Fayetteville	Washington.
Conner, Bertha	A.	Fayetteville	Washington.
Conway, Walter Black	A.	Washington	Hempstead.
Conway, George Taylor	S.	Washington	Hempstead.

PREPARATORY SCHOOL.—Continued.

Name.	*Course.*	*Postoffice.*	*County.*
Croom, Cleveland W.	A.	Dardanelle	Yell.
Curry, Corrie C.	S.	Fayetteville	Washington.
Davies, Samuel Green	A.	Fayetteville	Washington.
Davis, Grace Olga	A.	Fayetteville	Washington.
Davis, John Benjamin	E.	Chelsea	*Indian Ter.*
Dearing, William Nelson	S.	Willcockson	Newton.
Dickinson, W. E.	A.	Horatio	Sevier.
Dickinson, Will DeWoody	E.	Kingsland	Cleveland.
Doxey, Ethel	A.	Berryville	Carroll.
Du Lany, Orlander Denson	A.	Ben Lomond	Sevier.
Dunlap, David Ward	A.	Clarksville	Johnson.
Dunn, Fay Lester	A.	Fordyce	Dallas.
Eason, Alcuin Pitt	E.	Fayetteville	Washington.
Elza, Charles Frederick	S.	Benton	Saline.
Evans, Harry Hall	S.	Hot Springs	Garland.
Ferguson, Ulysses Grant	E.	Booneville	Logan.
Ferguson, Ezra Franklin	E.	Booneville	Logan.
Ferguson, Joseph C.	S.	McDaniels	St. Francis.
Foreman, Charles Doss	S.	Chelsea	*Indian Ter.*
Frazier, George Washington	S.	Peterpender	Franklin.
Freeman, Robert Jefferson	S.	Hot Springs	Garland.
Gallaway, Margaret Bell	S.	Fayetteville	Washington.
George, Walter	E.	Dardanelle	Yell.
Griesen, John F.	E.	Altoona	*Pennsylvania.*
Hackett, S. B.	E.	Hackett	Sebastian.
Haraway, Albert	A.	Hartman	Johnson.
Harding, Charles Tomlinson	A.	Fayetteville	Washington.
Harkey, Roscoe L.	E.	Ola	Yell.
Harkey, Opal N.	A.	Ola	Yell.
Harrison, Ralph Yeates	A.	Fayetteville	Washington.
Henderson, Jai Ruffin	E.	Hot Springs	Garland.
Hipolite, Charles Edward	E.	Devall's Bluff	Prairie.
Hollabaugh, Cleveland B.	S.	Marshall	Searcy.
Holt, Seaborn James	A.	Bellefonte	Boone.
Hooper, Lillian Gertrude	A	Batesville	Independence.
Hooper, Edward Kenneth	E.	Batesville	Independence.
Horton, John Barnes	S.	Augusta	Woodruff.
Howard, Albert Socrates	S.	Ellsworth	Logan.

PREPARATORY SCHOOL.—Continued.

Name.	*Course.*	*Postoffice.*	*County.*
Hudgins, Bessie May	S.	Hot Springs	Garland.
Hurst, George Abner	A.	Fayetteville	Washington.
Hutcherson, Lillian K	A.	Searcy	White.
Hutchison, Leroy S	E.	Altoona	*Pennsylvania.*
Jackson, Bruen	A.	Hamburg	Ashley.
James, John John	A.	Maysville	Benton.
Johnson, Nannie	A.	Fayetteville	Washington.
Jones, Ralph R	E.	Fayetteville	Washington.
Jones, Coulter W	A.	Lono	Grant
Jordan, Garland Weaver	A.	Prescott	Nevada.
Joyner, John Edward	A.	Atkins	Pope.
Joyner, Fay	A.	Atkins	Pope.
Kantz, Fred	E.	Fayetteville	Washington.
Key, Willett F	A.	Amity	Clark.
Kirksey, P. L.	E.	Wesley	Madison.
Kunz, Elmer Huett	A.	Bentonville	Benton.
Lary, Spencer Thomas	A.	Vilonia	Faulkner.
Lasater, John A	A.	Ellsworth	Logan.
Legate, Ray H.	A.	Mena	Polk.
Leverett, Nina	A.	Fayetteville	Washington.
Little, J. E	E.	Camden	Ouachita.
Love, Leroy Edward	A.	Dardanelle	Yell.
Mackey, Earl	E.	Denison	*Texas.*
Marr, Rola B	A.	Nashville	Howard.
Martin, Jessie M	A.	London	Pope.
Mayes, George Frank	E.	Lowell	Benton.
McCown, Louis D	A.	Lockesburg	Sevier.
McGehee, Benjamin	A.	McGehee	Desha.
McMillan, Della	A.	Fayetteville	Washington.
Meiser, John Garrison	A.	Paragould	Greene.
Meiser, Wallace Benjamin	A.	Paragould	Greene.
Mitchell, Carrie B.	S.	Gillett	Arkansas.
Molloy, Stephen M.	E.	Clarksville	Johnson.
Moore, Henrietta	A.	Cincinnati	Washington.
Morrow, Donald Blackburn	E.	Booneville	Logan.
Neelly, Bessie Grace	A.	Dardanelle	Yell.
Nickell, Warwick A	A.	Ozark	Franklin.
Oates, Charles E	A.	Martinville	Conway.

PREPARATORY SCHOOL.—Continued.

Name.	*Course.*	*Postoffice.*	*County.*
Old, Elias Carruth	S.	Washington	Hempstead.
Pate, Clayton Revas	A.	Jamestown	Independence.
Phillips, Roberta Grace	A.	Fayetteville	Washington.
Phillips, Thomas Wilbern	E.	Fayetteville	Washington.
Pittman, William Guy,	A.	Pine Grove	Dallas.
Pratt, Darwin Hippolyte	E.	Fayetteville	Washington.
Purdy, William Conery	E.	Lake Providence	*Louisiana.*
Reagan, Zenas Lytton	A.	Fayetteville	Washington.
Reid, Charles William	A.	Texarkana	Miller.
Reeves, Claudie Myrtle	A.	Alma	Crawford.
Rhea, William Harris	A.	Cincinnati	Washington.
Rice, Richard	S.	Bentonville	Benton.
Rogers, Joel Acker	A.	Arkansas City	Desha.
Rogers, Silas Wesley	A.	Riley	Yell.
Ross, James Edgar	E.	Fayetteville	Washington.
Seamans, Pinckney S	E.	Dermott	Chicot.
Shepherd, William L	A.	Bryant	Saline.
Sisemore, Edward	A.	Southern Home	Logan.
Stainton, Ernest H.	A.	Emmet	Nevada.
Stapp, George Harold	E.	St. Louis	*Missouri.*
Starbuck, Arward	A.	Rocky Comfort	Little River.
Stone, James Hicks	E.	Fayetteville	Washington.
Sullivant, Marue	A.	Belleville	Yell.
Taber, Glenn Dale	E.	Fayetteville	Washington.
Taylor, Calvin Finn	A.	Alma	Crawford.
Thomas, Bessie Leoline	A.	Fayetteville	Washington.
Thomas, William F	S.	De Queen	Sevier.
Thompson, Albert Sidney	A.	Fayetteville	Washington.
Van Valkenburgh, Horace B	A.	Warren	Bradley.
Vaughan, Daisy	A.	Fayetteville	Washington.
Vaulx, Gordon Welch	E.	Fayetteville	Washington.
Watkins, George Evan	S.	Huntington	Sebastian.
Williams, Donna Earnestine	A.	Fayetteville	Washington.
Williams, Beulah Jessie	A.	Fayetteville	Washington.
Womack, Stella May	A.	Seba	Benton.
Womack, R. E.	A.	Seba	Benton.
Womack, John	A.	Seba	Benton.
Wood, Robert Hacker	E.	Caddo	*Indian Ter.*

PREPARATORY SCHOOL.—Continued.

Name.	*Course.*	*Postoffice.*	*County.*
Woods, Charles Roscoe	E.	Clarksville	Johnson.
Wozencraft, Louis E.	E.	Holly Springs	Dallas.

FIRST YEAR CLASS.

Name.	*Course.*	*Postoffice.*	*County.*
Adams, May Belle	S.	Prairie Grove	Washington.
Albright, James Willett	S.	Fayetteville	Washington.
Algire, George Willard	E	Fayetteville	Washington.
Allen, Annie May	S.	Farmington	Washington.
Ambrose, Addie	A.	Fayetteville	Washington.
Ambrose, Ed	S.	Fayetteville	Washington.
Andrews, Edgar L	S.	Fayetteville	Washington.
Anthony, Lillian Gertrude	S.	Siloam Springs	Benton.
Ash, Walter Henry	E.	Fayetteville	Washington.
Austin, Emmett Elmo	A.	De Queen	Sevier.
Austin, Hamilton L.	E.	Van Buren	Crawford.
Bagley, Alfred	S.	Walnut Ridge	Lawrence.
Bagley, John	S.	Walnut Ridge	Lawrence.
Baird, Max	E.	Russellville	Pope.
Baker, Mattie Mae	S.	Fayetteville	Washington.
Barber, George Washington	S.	De View	Woodruff.
Bastin, Ora Elizabeth	A.	Chelsea	*Indian Ter.*
Beakley, Burleigh Maurice	S,	Pocahontas	Randolph.
Beard, Oscar	S.	Walnut Ridge	Lawrence.
Beauchamp, John Lee	E.	Fayetteville	Washington.
Bird, Robert P	A.	Thornton	Calhoun.
Blackmer, Albert Henry	E.	Fayetteville	Washington.
Borders, John Malloy	E.	Fayetteville	Washington.
Brown, Hal John	S.	Coffee Creek	Phillips.
Buckner, George L.	A.	Dermott	Chicot.
Burrows, Edward Peter	S.	Fayetteville	Washington.
Byrne, Lloyd Randolph	E.	Luna	Chicot.
Campbell. Mary Lenore	S.	Harris	Washington.
Casey, Lee Edgeworth	E.	Little Rock	Pulaski.
Catts, Erwin Campbell	E.	Washington	Hempstead.
Cazort, Ralph	S.	Lamar	Johnson.
Chadwick, James Albert	S.	England	Lonoke.
Chapman, Edward M	A.	Lake Village	Chicot.

PREPARATORY SCHOOL.—Continued.

Name.	*Course.*	*Postoffice.*	*County.*
Clark, Lula M.	A.	Mena	Polk.
Cochrane, Leroy	E.	Gravett	Benton.
Cooke, Cecil Robert	S.	Cypert	Phillips.
Conner, Catherine Gray	A.	Fayetteville	Washington.
Cravens, Ernest Francis.	E.	Farmington	Washington.
Crawford, Pearl.	A.	Sulphur City	Washington.
Crawford, William Reed	A.	Fayetteville	Washington.
Crouch, Cora Leslie	S.	Fayetteville	Washington.
Crownover, Curtis	E.	Dardanelle	Yell.
Crozier, Ruth Margaret	S.	Fayetteville	Washington.
Cullins, Archie	S.	Jamestown	Independence.
Dalton, Mary	A.	Fayetteville	Washington.
Dalton, Charles Edward	E.	Fayetteville	Washington.
Darwin, William Milton	E.	Wickes	Polk.
Davis, Lyta	S.	Chelsea	*Indian Ter.*
Davis, Barbara Clair	S.	Fayetteville	Washington.
Deane, Ruth Elizabeth.	A.	Fayetteville	Washington.
Deane, Sidney E.	E.	Fayetteville	Washington.
Dedman, Fred Albert	E.	Elmora	*Colorado.*
Dickinson, Claude	S.	Emmet	Nevada.
Duncan, May Lillian	S.	Fayetteville	Washington.
Dyer, Charles Gloore	E.	St. Louis	*Missouri.*
Edwards, Homer Sylvan	A.	Evening Shade	Sharp.
Epstein, Clarence Randall	A.	Little Rock	Pulaski.
Eudaly, Arthur Chester	E.	Powhatan	Lawrence.
Evins, Barney	E.	Dardanelle	Yell.
Faver, Edward Monroe	S.	Oakdale	Pulaski.
Field, Ella Cleveland	S.	Powhatan	Lawrence.
Franks, Samuel Elias	S.	Laneburg	Nevada.
Freeman, Mack	S.	Hot Springs	Garland.
Garrett, David Franklin	S.	Sutton	Nevada.
Garretson, Walter Bonner	A.	San Bois	*Indian Ter.*
Gates, Albert Lawrence	E.	Fayetteville	Washington.
Gisch, Orville Anthony	E.	Pine Bluff	Jefferson.
Crady, Quintus	E.	Lockesburg	Sevier.
Graham, Hercules	A.	Springdale	Washington.
Gray, Lela	A.	Fayetteville	Washington.
Grundy, Edmund Jones	S.	Mammoth Spring	Fulton.

PREPARATORY SCHOOL.—Continued.

Name.	*Course.*	*Postoffice.*	*County.*
Hall, William Brown	E.	Morrell	Ashley.
Harris, Ordelle C.	E.	Ola	Yell.
Harrison, Victor Minor	E.	Fayetteville	Washington.
Harrison, Charles D.	E.	Fayetteville	Washington.
Hendrix, Hesakier Jefferson	S.	Chapel Hill	Sevier.
Herron, Clarence William.	E.	Bentonville	Benton.
Hight, Stella	S.	Fayetteville	Washington.
Hodges, Edgar Earl	A.	Hurricane	Saline.
Holland, Courtney	S.	Siloam Spring	Benton.
Holthoff, Claud H.	S.	Petersburg	Ashley.
Howard, John Wesley	S.	Smithville	Lawrence.
Howell, Elmo	E.	Fayetteville	Washington.
Hughes, Joseph Robert	A.	Benton	Saline.
Jacobs, Charles	E.	Paragould	Greene.
Janes, Ralph Addison	E.	Jackson	*Tennessee.*
Jenkins, Oran Thomas	E.	Eureka Springs	Carroll.
Johns, Robert Harry	A.	Fayetteville	Washington.
Johnson, Zella	S.	Fayetteville	Washington.
Johnson, Mabel C.	A.	Fayetteville	Washington.
Jones, Harry Edgar	S.	Paragould	Greene.
Jordan, Emma Augusta	E.	Lockesburg	Sevier.
Joyner, Willie May	S.	Atkins	Pope.
Justus, Shelby	A.	Evening Shade	Sharp.
Kemp, John A. C.	E.	Fayetteville	Washington.
Kenabrew, Albert David	S.	Wilmot	Ashley.
Kennedy, J. D.	E.	Dardanelle	Yell.
Kerlin, Robert Lee	S.	Magnolia	Columbia.
Kibbe, John Williams	S.	Cave City	Sharp.
Kilgore, James Ollie	A.	Fayetteville	Washington.
Kunz, Lucy Estella	A.	Bentonville	Benton.
Lair, James	S.	Rally Hill	Boone.
Lemon, John McConnell.	E.	Cincinnati	Washington.
Less, Alexander M.	S.	Walnut Ridge	Lawrence.
Lewis, Lake	E.	Atkins	Pope.
Lewis, John Potts.	E.	Atkins	Pope.
Little, Jessie Grey	A.	Lavaca	Sebastian.
Little, Emmett	S.	Summers	Washington.
Mackey, Lura	A.	Denison	*Texas.*

PREPARATORY SCHOOL.—Continued.

Name.	*Course.*	*Postoffice.*	*County.*
Maguire, Minnie	S.	Fayetteville	Washington.
Maguire, William Jefferson	E.	Fayetteville	Washington.
Marks, Carrie Clevett	A.	Kingsland	Cleveland.
Matthews, Lulu Sophie Cecelia	S.	Hot Springs	Garland.
McCaleb, James Abernathy	A.	Evening Shade	Sharp.
McCartney, Jessie	S.	Fayetteville	Washington.
McCray, J. B	S.	Chickalah	Yell.
McCray, William Ernest	E.	Chickalah	Yell.
McDaniel, Dardis	A.	Fayetteville	Washington.
McGaughy, Harry G	E.	El Dorado	Union.
McKennon, Basil Clement	E.	Clarksville	Johnson.
Mitchell, Lucian T	E.	Fayetteville	Washington.
Moon, William J	S.	Caddo	*Indian Ter.*
Moore, Samuel Tuttle	E.	Fayetteville	Washington.
Mons, Lee Arthur	E.	Little Rock	Pulaski.
Muller, Eugene M	E.	Little Rock	Pulaski.
Mullins, Thomas Jefferson	E.	Johnson	Washington.
Mullins, L. C	E.	Johnson	Washington.
Mundell, Charles Nathan	S.	Rogers	Benton.
Neelly, Helen	S.	Dardanelle	Yell.
Noble, Leonard Joseph	S.	Sapulpa	*Indian Ter.*
Nordmeyer, Charles Dudley	S.	Fayetteville	Washington.
Norman, Olivia	A.	Fayetteville	Washington.
Oliver, Rachel	A.	Fayetteville	Washington.
Olmstead, Jessie M	S.	Chapel Hill	Sevier.
Parker, Whit Bunion	E.	El Dorado	Union.
Payne, Effie R	S.	Fayetteville	Washington.
Payne, Samuel A	E.	Fayetteville	Washington.
Pearson, John B	A.	Poplar Grove	Phillips.
Pool, George	E.	Cincinnati	Washington.
Pool, Yates	E.	Cincinnati	Washington.
Pope Arthur D	E.	Taylor	Columbia.
Prince, William Henry	E.	Conway	Faulkner.
Rankin, Percy	A.	Morrilton	Conway.
Reed, Clifton	A.	Fayetteville	Washington.
Reeder, Richard Oscar	E.	De Queen	Sevier.
Ribelin, Otis Baxter	S.	Maggie	Logan.
Roberts, John Clement	E.	Wabbaseka	Jefferson.

PREPARATORY SCHOOL.—Continued.

Name.	*Course.*	*Postoffice.*	*County.*
Robinson, Orme Tolbert	S.	Buckner	Columbia.
Ross, Emma Jewel	A.	Colagah	*Indian Ter.*
Russell, George Clinton	S.	Joella	Lafayette.
Russell, Samuel Pennington	S.	Joella	Lafayette.
Sanders, George Thomas	E.	Fayetteville	Washington.
Sessions, Robert Thomas	S.	Winthrop	Little River.
Shinn, Erwin W.	A.	Russellville	Pope.
Shultz, Howard Lee	E.	Fayetteville	Washington.
Shultz, Harvey Everett	E.	Fayetteville	Washington.
Simmons, Juanita	A.	Fayetteville	Washington.
Sims, Albert Lee	E.	Dardanelle	Yell.
Smith, Arthur Mack	E.	Chismville	Logan.
Smith, William Howard	S.	Herndon	Craighead.
Snapp, Austin	A.	Jamestown	Independence.
Stanford, James	S.	Fayetteville	Washington.
Stearnes, Ollie May	A.	Fayetteville	Washington.
Stearnes, Homer Eugene	E.	Fayetteville	Washington.
Stidham, James Alonzo	S.	Herndon	Craighead.
Stifft, Perry William	A.	Little Rock	Pulaski.
Stille, Emma Corinne	S.	Greenwood	Sebastian.
Summers, William Hamilton	E.	Fayetteville	Washington.
Swan, Jason	E.	Bodcaw	Nevada.
Thomas, Atha M.	S.	Talihina	*Indian Ter.*
Thompson, Charles	A.	Atkins	Pope.
Thompson, Homer	S.	Spring Creek	Lee.
Thompson, Harry Aubrey	S.	Bentonville	Benton.
Thompson, Charles E.	A.	College Hill	Columbia.
Tillman, John Walker	A.	Fayetteville	Washington.
Tillman, Fred Allen	A.	Fayetteville	Washington.
Trumbo, Estella May	A.	Fayetteville	Washington.
Vanderslice, Willard A.	E.	Willow	Dallas.
Vaught, Esther	S.	Mountainburg	Crawford.
Vaught, Edley J.	A.	Mountainburg	Crawford.
Vinson, Joseph	S.	Augusta	Woodruff.
Walls, Jord	E.	Maggie	Logan.
Wainwright, James	E.	Waldo	Columbia.
Webb, Lester Wiley Edward	S.	Cypert	Phillips.
Wells, Frank Stuart	E.	Powhatan	Lawrence.

PREPARATORY SCHOOL.—Continued.

Name.	*Course.*	*Postoffice.*	*County.*
Whitehead, Nellie	A.	Fayetteville	Washington.
Whitlow, Charles Birnie	E.	Fayetteville	Washington.
Williams, Roy Welch	E.	Fayetteville	Washington.
Williams, Hosea Lafayette	A.	Fayetteville	Washington.
Williamson, Elmer Clay	A.	De Queen	Sevier.
Wilson, Henry Jackson	S.	Morgan	Bradley.
Winslow, Blanche	S.	Fayetteville	Washington.
Womack, William Vance	A.	Seba	Benton.
Woosley, Florence E.	E.	Fayetteville	Washington.

ENROLLMENT FOR SESSION 1900-1901.

COLLEGIATE DEPARTMENT.

Graduates	6	
Seniors	28	
Juniors	28	
Sophomores	43	
Freshmen	89	
Normal	18	
Short Course in Engineering	11	
Agriculture, Horticulture and Special	50	
Vocal Music	13	
Instrumental Music	41	
Freehand Drawing and Art	96	
Elocution, Oratory and Physical Culture	98	
	521	
Names counted twice	219	
Total		302

PREPARATORY DEPARTMENT.

Second Year	146	
First Year	194	
Total		340
Total at Fayetteville		642
Medical Department (Little Rock)		240
Law Department (Little Rock)		21
Branch Normal (Pine Bluff)		247
Grand Total		1,150

Alumni Association.

The object of this association is to maintain the interest of the graduates in the institution and bring them into a closer relation with the University. To this end all graduates are considered members. The association usually holds a meeting during commencement week.

LIST OF ALUMNI.

George Carl Abernathy, B. A., '00, Law Student University of Pennsylvania.

Don C. B. Aiken, C. E., '89, Eng. Dep., Johnson Company, Johnstown, Pa.

Edna Allen, B. A., '96, Teacher, Muscogee, I. T.

L. S. Anderson, B. L. L., '84, Clerk in Land Office, Washington, D. C.

J. D. Arbuckle, B. A., '92, Principal Public Schools, Paris, Ark.

C. F. Armistead, B. A., '93, Lieutenant in U. S. A.

L. R. Ash, B. C. E., '93, Professor Mathematics, Coe College, Cedar Rapids, Ia.

W. E. Ayers, B. C. E., '98, Topographical Engineer, U. S. Surveying Corps, Quemados, Cuba.

W. H. Askew, B. A., '97, Lawyer, Magnolia, Ark.

Geo. H. Askew, B. A., '98, Merchant, Fayetteville, Ark.

Ida Barr, B. S., '96, Mrs. R. E. Bagby, St. Joseph, Mo.

C. P. Barnett, B. E. E., '96, Electrical Engineer, Fulton, Mo.

C. O. Bates, B. A., '83, Professor of Chemistry, Coe College, Cedar Rapids, Ia.

J. H. Bates, B. A., '86, Lawyer, Corsicana, Tex.

Mary Beattie, B. A., '96, Teacher, Deaf and Mute School Michigan.

M. L. Bell, B. A., '98, Pine Bluff, Ark.

J. C. Bell, B. A., '94, Physician, Memphis, Tenn.

LIST OF ALUMNI.—Continued.

Nettie Barnett, B. L., '76, Mrs. C. E. Boles, Fayetteville, Ark.
Blanche Bibb, B. A., '93, Mrs. G. A. Humphreys, New York.
J. W. Black, B. A., '92, Lawyer, McAlester, I. T.
W. J. Blackwell, B. C. E., '92, Engineer, Golden Lake, Ark.
Nora Blakely, B. A., '78, Mrs. H. M. Hudgins, Fayetteville, Ark.
J. H. Blair, B. C. E., '99, Draftsman, Riter & Conley, Allegheny City, Pa.
W. P. Booth, B. A., '82, Farmer, Reyno, Ark.
Alice Borden, '77.
Laura D. Botefuhr,* '75, Mrs. G. W. Schulte.
Preston Bowles, B. C. E., '88, Kansas City Southern Railway, Lake Charles, La.
W. E. Boyd, B. A., '96, Lawyer, Cooper, Tex.
Amanda Braly, B. S., '96, Washington, D. C.
Etta Braly, B. S., '96, Mrs. Thos. McColloch, Boonsboro, Ark.
E. H. Braly, B. A., '94.
E. K. Braly, B. M. E., '97, Professor of Mechanics, Branch Normal College, Pine Bluff, Ark.
O. P. Brewer, B. S., '93, Webber's Falls, I. T.
A. M. Brixey, B. A., '96, Vinita, I. T.
Edgar Thurman Brown, C. E., '00, Student, Cornell University.
W. D. Brown, B. A., '82, Physician, Newtonia, Mo.
H. M. Butler, B. A., '79, Teacher, Arkansas.
J. L. Campbell, B. A., '97, Journalist, Greenwood, Ark.
E. B. Carden,* B. L., '77.
Ella Carnall,* A. M., '81.
A. H. Carrigan, B. A., '82, Washington, Ark.
Ann E. Carson, '75, Mrs. John Knight, Jonesboro, Ark.
Augusta O. Carson, '75, Mrs. T. W. Cline, Downey, Cal.
C. K. Chanslor, B. A., '82, Lawyer, Grant's Pass, Ore.
W. R. Cherry, B. A., '82.
Sydney Connelly, B. A., '00, Farmer, Poplar Grove, Ark.
Jessie Cravens, B. L. L., '83, Mrs. O. Cravens, Neosho, Mo.
A. B. Crozier, B. E. E., '97, Electrical Engineer, Kansas City, Mo.
Wm. N. Crozier, B. A., '88, Missionary to China.

*Deceased.

LIST OF ALUMNI.—Continued.

R. N. Cummings, B. A., '98, Medical Student, St. Louis, Mo.
Lula Curry, B. S., '92, Mrs. G. L. Teller, Chicago, Ill.
Mike Danaher, B. A., '88, Lawyer, Little Rock, Ark.
Hadgie B. Davies, B. A., '93, Adjunct Professor of English and Modern Languages, University of Arkansas.
Lila Davies, B. A., '96, Teacher, Texarkana, Ark.
Lizzie P. Davis, '75, Mrs. R. C. Brown, Florence, Ariz.
Ruth Anna Dickinson, B. A., '00, Teacher, Little Rock, Ark.
Thomas Tiller Dickinson, B. A., '00, Law Student, Little Rock, Ark.
W. E. Dixon, B. A., '88, Teacher, Waldo, Ark.
C. H. Drake, B. C. E., '91, and C. E., '94, Engineer, Helena, Ark.
N. F. Drake, B. C. E., Professor of Geology and Mining, Imperial University, Tien-tsin, China.
C. J. Drees, B. E. E., '96, Edison Electric Company, Little Rock, Ark.
G. W. Droke, A. M., '80, Professor of Mathematics, University of Arkansas.
W. H. Duncan, B. L. L., '84, Lawyer, Conway, Ark.
Mallie Dyer, B. A., '94, Professor of English and German, Florida State College, Tallahassee, Fla.
Clara Earle, B. A., '96, Instructor in English and Modern Languages, University of Arkansas.
W. L. Edmiston,* B. L. L., '84.
Amanda A. Eld, B. A., '98, Teacher, Benton County, Ark.
George W. Eld, M. E., '00, Engineer with Armour Packing Company, St. Joseph, Mo.
C. J. Eld, B. C. E., '96, Assistant City Engineer, St. Joseph, Mo.
F. W. Ellis, B. A., '81, Lieutenant, U. S. Army, Fayetteville, Ark.
W. W. England, B. A., '83.
C. R. Fillmore, B. S.,* '99, Teacher, Ada, I. T.
L. F. Fishback, B. S., '89, Lawyer, Wichita Falls, Tex.
J. C. Floyd, B. A., '79, Lawyer, Yellville, Ark.
W. M. Flynn, B. A., '88, Teacher, Kennedale, Tex.

*Deceased.

LIST OF ALUMNI.—Continued.

J. R. Gannaway, B. A., '90, Lawyer, Member of Legislature.
D. A. Gates, B. A., '48, County Judge Desha County, Arkansas City, Ark.
J. E. Gibson, B. M. E., '94, Civil Engineer, Philadelphia, Pa.
W. P. Goodwin, B. L. L., '84, Lawyer, Warren, Ark.
Belle I. Corton, B. A., '76, Author, Chicago, Ill.
William Dodge Gray, B. A. 'oo' Principal Public School, Springdale, Ark.
C. D. Greaves, B. A., '83, Lawyer, Hot Springs, Ark.
Alfred W. Gregg,* B. A., '76.
Andrew S. Gregg, B. A., '78, Physician, Fayetteville, Ark.
L. W. Gregg, B. A., '82, Lawyer, Fayetteville, Ark.
C. E. Hall, B. C. E., '93, Civil Engineer, Russellville, Ark.
H. J. Hall, B. A., '94, Waldron, Ark.
W. J. Hamilton, B. A., '92, Principal of Public Schools. Huntington, Ark.
Agnes Harris, B. A., '76, Mrs. Johnson, Kansas City, Mo.
Sara E. Harris, B. A., '76, Mrs. C. P. Conrad, Osceola, Mo.
Grace Harrison,* B. S., '89, Mrs. T. L. Brown.
J. H. Harrod, B. A., '79, Lawyer, Little Rock, Ark
J. C. Hart, B. A., '85, Lawyer, Dardanelle, Ark.
J. T. Hawkins, '79, Physician, Mount Holly, Ark.
J. D. Head, B. A., '94, Lawyer, Columbia, Ark.
I. G. Hedrick, B. C. E., '92, Firm of Waddell & Hedrick, Consulting Engineers, Kansas City, Mo.
W. Rhodes Hervey, B. S., '90, Lawyer, Santa Anna, Cal.
E. W. Hillis, B. L. L., '84, Lawyer, Jonesboro, Ark.
J. H. Hobbs,* B. A., '88.
Daniel Hon, B. A., '82, Lawyer, Waldron, Ark.
Cener Holcomb, B. A., '92, Mrs. Dr. Ellis, Springdale, Ark.
Jobelle Holcomb, B. A., '98, Instructor in University of Arkansas, Fayetteville, Ark.
John Lyford Hornor, B. A., '00, Law Student, Helena, Ark.
Frank Horsfall, B. S., '00, on staff of Horticultural Station, Mountain Grove, Mo.
S. A. Horton, B. A., '91, Lawyer, Fairview, Ark.
J. W. Howell, B. L. L., '85, Cotton Buyer, Clarksville, Ark.

*Deceased.

LIST OF ALUMNI.—Continued.

Willey Howell, B. S., '97, First Lieutenant, 4th Infantry, U. S. Army.

J. H. Hudson, B. L. L., '84, Farmer, Dardanelle, Ark.

R. W. Huie, Jr., B. A., '99, Law Student, University of Virginia.

G. A. Humphreys, B. A., '90, Physician, New York City.

Edgar Jennings, B. A., '77.

Gustave Jones, B. L. L., '82, Lawyer, Newport, Ark.

Albert P. Johnson, B. A., '76, Lawyer, Winfield, Kan.

T. M. Johnson,* B. L. L., '80.

G. H. Kimball, B. C. E., '92, Dardanelle, Ark.

Artelle Alice King, B. L. L., '80, Mrs. J. C. Belt, Brooken, I. T.

E. B. Kinsworthy, B. L. L., '85, ex-Attorney-General of the State of Arkansas, Lawyer, Little Rock, Ark.

F. B. Kirby, B. A., '99, Harrison, Ark.

T. B. Kitchens, A. M., '80, Merchant, Paragould, Ark.

Ella Lake, B. L. L., '84, Mrs. S. W. Barnett, Fayetteville, Ark.

W. H. Langford, B. A., '80, Banker, Pine Bluff, Ark.; Member of the Board of Trustees University of Arkansas.

J. A. M. Lanier, B. A., '82.

Abbie Leverett, B. A., '94, Mrs. John H. Taff, Shafter, Tex.

Mary Leverett, B. A., '86, Mrs. J. A. Taff, Washington, D. C.

Rose C. Leverett, B. A., '97, Mrs. T. A. Edwards, Indian Territory.

D. B. Lipsey, B. S., '96, Bookkeeper, Connor & Co., Fayetteville, Ark.

W. Ross McCain, M. A., '98, Law Student, Little Rock, Ark.

Eva McCart, '75, Mrs. D. M. Main, Cheney, Kan.

J. B. McDonough, B. A., '82, Read & McDonough, Attorneys, Fort Smith, Ark.

W. R. McFarlane, B. A., '82, Lawyer, Greenwood, Ark.

Charles F. McKinney, '75, Traveling Salesman, Ozark, Ark.

John C. McNeely, B. C. E., '89, Planter, Rackensack, Ark.

S. E. Marrs, B. A., '79, Editor of the Democrat, Fayetteville, Ark.

LIST OF ALUMNI.—Continued.

J. C. Marshall, M. A., '79, Lawyer, Little Rock, Ark.

Mack Martin, B. M. E., '91, Assistant Superintendent of Mechanic Arts, University of Arkansas.

Pearl Martin, B. S., '93, Teacher at Fayetteville, Ark.

Collin Massie, B. A., '77, Teacher at Fayetteville, Ark.

J. E. Martineau, B. A., '96, Lawyer, Little Rock, Ark.

J. F. Mayes, B. A., '83, Lumber Dealer, Fayetteville, Ark.

Dane A. McNeill, M. E., '97, Superintendent of Factory, Salem, Ohio.

Elmer Daniel Means, B. A., '00, Teacher, Paris, Ark.

W. M. Mellette, B. L., '77, Mellette & Smith, Attorneys, Vinita, I. T.

Mai Middleton, B. A., '86, Mrs. R. Chasteen, Fort Smith, Ark.

H. P. Moberly, B. C. E., '94, Assistant Engineer, The Texas & Pacific Railway Company, Donaldsville, La.

Lucy B. Mock, B. A., '94, Professor in Gessamine College, Nicholasville, Ky.

E. L. Mock, B. A., '94, Prairie Grove, Ark.

J. F. Moore, B. S., '93, Assistant Chemist, Agricultural Experiment Station, Fayetteville, Ark.

J. H. Moore, B. S., '93, Chemist, Solvay Process Company, Syracuse, N. Y.

J. I. Moore, B. A., '81, Lawyer, Member of Legislature, Helena, Ark.

J. L. Moore, B. M. E., '97, Draftsman, Holly Manufacturing Company, Lockport, N. Y.

Lucy J. Moore, '75, Mrs. Ross, Cincinnati, Ark.

Benjamin Louis Moore, B. A., '00, Law Student, Van Buren, Ark.

D. C. Morrow, B. E. E., '97, Engineer, Eureka Springs, Ark.

Mattie W. Morrow, B. S., '90, Mrs. Joe Wilson, Fayetteville, Ark.

Sara Mulholland, B. A., '86, Mrs. J. F. Mayes, Fayetteville, Ark.

A. J. Myar, B. C. E., '96, Engineer with St. Louis Bridge and Iron Company, St. Louis, Mo.

W. H. Neal, B. L., '76, Lawyer, Van Buren, Ark.

LIST OF ALUMNI.—Continued.

A. J. Newman, B. A., '91, Lawyer, Little Rock, Ark.
George Nicholls, B. A., '98, Journalist, Helena, Ark.
E. P. Notrebe, '85, Physician, Kansas City, Mo.
T. F. Oates, B. A., '92, Physician, Mexia, Tex.
Ora Obenshain, B. S., '89, Teacher in Public Schools, Eureka Springs, Ark.
Charles Hector Orto, B. A., '00, with Pulaski Trust Company, Little Rock, Ark.
Ida Pace, B. A., '88, Mrs. A. H. Purdue, Fayetteville, Ark.
Daisy B. Patterson, B. A., '99, Teacher, Galloway College, Searcy, Ark.
C. C. Patton, B. A., '91, Lawyer, Hillsboro, Ohio.
L. Alice Patton, A. M., '79, Teacher, Prairie Grove, Ark.
Mattie J. Patton, B. L. L., '80, Mrs. Dr. Chas. Jenkins, Denver, Ill.
Thos. A. Pettigrew, A. M., '78, Lawyer, Charleston, Ark.
Harry Pharr, B. C. E., '93, Chief Engineer St. Francis Levee Board, Southern Express Building, Memphis, Tenn.; Member of the Board of Trustees University of Arkansas.
J. S. Pharr, B. A., '92, Assistant Engineer St. Francis Levee Board, Southern Express Building, Memphis, Tenn.
Robert Edward Philbeck, B. A., '00, Graduate Student University of Arkansas.
J. W. Pickel, B. A., '82, Physician for Crystal Plate Glass Company, Crystal City, Mo.
R. T. Pittman, B. S., '94, Chemist, Sloss Iron and Steel Company, Birmingham, Ala.
Alice Polson, B. S., '88, Mrs. W. C. Hutchinson, 1409 Pendleton avenue, St. Louis, Mo.
W. W. Powell, B. A., '88, Lawyer, Batesville, Ark.
C. G. Price, B. A., '98, Bookkeeper for Yowell & Williams, Little Rock, Ark.
W. E. Pruett, B. C. E., '97, Draftsman, Waddell & Hedrick, Kansas City, Mo.
Lizzie Purdy, B. S., '00, Fayetteville, Ark.
Anna Putnam, M. A., '75, Mrs. King, Greenwood, Ark.

LIST OF ALUMNI.—Continued.

William H. Rattenbury, B. A., '00, in Mercantile Business, Fayetteville, Ark.

J. L. Redus, B. A., '96, Lead Hill, Boone County, Ark.

G. W. M. Reed, Jr., B. L. L., '84, in Census Office, Washington, D. C.

Lina Reed, B. A., '81, Instructor University of Arkansas, Fayetteville, Ark.

Maggie Reed,* B. A., '78.

O. S. Rieff, B. A., '81, Lawyer, Deputy State Auditor, Little Rock, Ark.

P. A. Rodgers, B. A., '92, Farmer, Gravett, Ark.

W. A. Ross, B. A., '98, Student in Union Theological Seminary, Richmond, Va.

Z. C. Ross,* B. A., '80.

Lawrence Russell, B. A., '80, Lawyer, Russellville, Ark.

C. F. Sanders, B. A., '99, Principal Whittington School, Hot Springs, Ark.

G. C. Schoff, B. C. E., '88, Civil Engineer, Babcock-Wilcox Boiler Company, Philadelphia, Pa.

G. C. Shell, B. L. L., '82, Lawyer, Lake Village, Ark.

A. W. Shreve, B. C. E., '91, County Surveyor Washington County, Farmington, Ark.

H. B. Shreve, B. C. E., '91, New Mexico.

W. D. Simms,* B. L., '77.*

Alice Simonds, B. S., '96, Mrs. A. V. Smith.

J. E. Skeleton, B. S., '97, Chemist, Sloss Iron and Steel Co., Birmingham, Ala.

G. V. Skelton, B. C. E., '91, Professor of Mathematics, Agricultural College, Corvallis, Ore.

Ida Slagle, B. A., '89, Mrs. Gilbreath, Siloam Springs, Ark.

Chester Collins Sloan, B. S., '00, Medical Student, University of Pennsylvania.

A. V. Smith, B. A., '98, Clerk in Census Department, Washington, D. C.

E. L. Spencer, B. A., '98, Principal of Public School, Forrest City, Ark.

*Deceased.

LIST OF ALUMNI.—Continued.

Henry Stroup, B. A., '83, Lawyer, Paris, Ark.; Member of the Board of Trustees of the University of Arkansas.

Wm. S. Sutton, A. M., '78, Professor of Pedagogy, University of Texas.

Albert Taff,* B. C. E., '90.

J. L. Taff, B. A., '84, Principal Public School, Austin, Tex.

Mary Taff, B. A., '89, Mrs. G. V. Skeleton, Corvallis, Ore.

Lou Taliaferro, B. L. L., Stenographer, Kansas City, Mo.

E. L. Taylor, B. L., '76, Lawyer, Bentonville, Ark.

Daniel Webster Taylor, B. A., '00, Law Student, Pine Bluff, Ark.

C. V. Teague, B. A., '79, Prosecuting Attorney, Hot Springs, Ark.

Annie Cyna Thomason, B. A., '00, In Business, Fayetteville, Ark.

B. J. Tillar, B. A., '86, Capitalist, Fort Worth, Tex.

J. N. Tillman, B. L. L., '80, ex-District Prosecuting Attorney, Lawyer, Fayetteville, Ark.

George Franklin Towler, B. A., '00, Law Student, Little Rock, Ark.

William A. Treadway, E. E., '00, Graduate Student, University of Arkansas.

Lee Treadwell, C. E., '88, Engineer with John Pierce, Contractor, U. S. Navy Yard, Portsmouth, N. H.

S. C. Treadwell, B. A., '94, Lawyer, Tishomingo, I. T.

A. M. Vance, B. C. E., '93, Pierce City, Mo.

James Vandeventer, B. S., '93, Bookkeeper, Fayetteville, Ark.

George Vaughan, B. A., '96, Lawyer, Lockesburg, Ark.

Julia Vaulx, B. A., '92, Professor Coe College, Cedar Rapids, Ia.

S. F. Vaulx, B. A., '92, Memphis, Tenn.

Katherine D. Vaulx, B. A., '97, Teacher, Benton, Ark.

Annie Waggener, B. L., '77, Mrs. Marcus, Cincinnati, Ark.

W. J. Waggener, A. M., '76, Professor of Natural Philosophy, University of Colorado, Boulder, Colo.

J. V. Walker, B. A., '77, Lawyer, Fayetteville, Ark.

*Deceased.

LIST OF ALUMNI.—Continued.

C. A. Watson, B. A., '77, Teacher, Fayetteville, Ark.

J. J. Watson, B. A., '81, Teacher, California.

G. A. Warren, B. L., '88, Physician, Imboden, Ark.

J. N. Wheeler, B. A., '90, Capitalist, Warren, Ark.

C. N. Weems, B. A., '99, Teacher, Ozark, Ark.

Hattie E. Williams, B. A., '98, Teacher, Van Buren, Ark.

Naomi J. Williams, A. M., '80, Instructor in University of Arkansas.

Winona May Wiley, B. A., '99, Teacher in Galloway College, Searcy, Ark.

Jennie Williams, B. A., '96, Teacher, Texarkana, Ark.

R. H. Willis,* B. A., '88, Ph. D., '96.

A. C. Wood, B. M. E., '92, Engineer, Philadelphia, Pa.

B. F. Wood, B. E. E., '93, Electrical Engineer, Altoona, Pa.

C. D. Wood, B. A., '79, Associate Justice Supreme Court of Arkansas.

Guy B. Wood, B. A., '99, Kansas City Southern Railway Office, Texarkana, Ark.

W. H. Woodall, B. A., '85, Principal of Female College, Lake City, Fla.

C. D. Woolverton, B. L. L., '85, Principal of School, Sheridan, Ark.

Daisy Young, B. A., '00, Springdale, Ark.

*Deceased.

NOTE.—The President will be pleased to receive information as to the address and occupation of those members of the Alumni for whom these data are wanting. The Alumni are especially requested to give notice of any omission or errors in the foregoing list, or any changes made during the ensuing year.

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1902

JANUARY

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FEBRUARY

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CALENDAR, 1902-1903.

FAYETTEVILLE.

1902.

September 17, Wednesday—First term begins.
September 17-20—Entrance examinations.
November 25, Thursday—Thanksgiving, a holiday.

1903.

January 23, Friday—First term examinations begin.
January 31, Saturday—First term ends.
February 2, Monday—Second terms begins.
May 21, Thursday—Decoration day, a holiday.
May 29, Friday—Decoration day, a holiday.
June 4, Thursday—Second term examinations begin
June 14, Sunday—Baccalaureate sermon.
June 18, Thursday—Annual commencement.

MEDICAL DEPARTMENT, LITTLE ROCK.

1902.

October 9, Thursday—Regular session begins.

1903.

April 9, Thursday—Session ends.

LAW DEPARTMENT, LITTLE ROCK.

1902.

October 1, Monday—Fall term begins.

1903.

January 30, Friday—Fall term ends.
February 2, Monday—Spring term begins.
May 29, Friday—Spring term ends.

BRANCH NORMAL COLLEGE, PINE BLUFF.

1902.

September 2, Tuesday—Session begins.

1903.

May 29, Friday—Session ends.

BOARD OF TRUSTEES.

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FACULTY.

AT FAYETTEVILLE.

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President.

ALBERT ERNEST MENKE, D. Sc., F. C. S., Ph. D.,
Professor of Chemistry and Physics.

JOHN CLINTON FUTRALL, M. A.,
Professor of Ancient Languages.

GEORGE WESLEY DROKE, A. M.,
Professor of Mathematics and Astronomy.

JULIUS JAMES KNOCH, M. S., C. E.,
Professor of Civil Engineering.

WILLIAM NATHAN GLADSON, M. S., E. E., Ph. D.,
Professor of Electrical Engineering.

ALBERT HOMER PURDUE, A. B.,
Professor of Geology and Mineralogy and Curator of the Museum.

CLIFFORD LEWIS NEWMAN, B. S.,
Superintendent of Agriculture.

SIMON JAMES McLEAN, M. A., LL. B., Ph. D.,
Professor of Economics and Sociology.

JUNIUS JORDAN, A. M., LL. D.,
Professor of Philosophy and Pedagogics.

CHARLES EDWIN HOUGHTON, A. B., M. M. E.,
Professor of Mechanical Engineering and Superintendent of Mechanic Arts.

FRANK WELBORN PICKEL, A. B., M. Sc.,
Professor of Biology.

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HON. H. L. STROUP, Fourth District .....Paris.
HON. J. C. MITCHELL, Fifth District .....Fayetteville.
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On Agricultural Department—Messrs. Pharr, Cook, Stroup.

On Mechanical Department—Messrs. Hamby, Mitchell, Langford.

On Printing—Messrs. Hamby, Langford.

On Teachers—Messrs. Pharr, Mitchell, Hamby, Langford.

BOARD OF CONTROL OF AGRICULTURAL EXPERIMENT STATION.

Committee on Agricultural Department, President of the University, Director of the Station.

With the Compliments of

JNO. L. BUCHANAN, President.

D.,

ALBERT ERNEST MENKE, D. Sc., F. C. S., Ph. D.,
Professor of Chemistry and Physics.

JOHN CLINTON FUTRALL, M. A.,
Professor of Ancient Languages.

GEORGE WESLEY DROKE, A. M.,
Professor of Mathematics and Astronomy.

JULIUS JAMES KNOCH, M. S., C. E.,
Professor of Civil Engineering.

WILLIAM NATHAN GLADSON, M. S., E. E., Ph. D.,
Professor of Electrical Engineering.

ALBERT HOMER PURDUE, A. B.,
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Superintendent of Agriculture.

SIMON JAMES McLEAN, M. A., LL. B., Ph. D.,
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JUNIUS JORDAN, A. M., LL. D.,
Professor of Philosophy and Pedagogics.

CHARLES EDWIN HOUGHTON, A. B., M. M. E.,
Professor of Mechanical Engineering and Superintendent of Mechanic Arts.

FRANK WELBORN PICKEL, A. B., M. Sc.,
Professor of Biology.

*ALVIN FAYETTE LEWIS, A. M., Ph. D.,
Professor of History.

ARTHUR CHANNING BARROWS, A. M.,
Acting Professor of History.

ERNEST WALKER, B. S. Agr.,
Professor of Horticulture.

WILLIAM ALEXANDER READ, Ph. D.,
Professor of English and Modern Languages.

EDGAR FINLEY SHANNON, B. A.,
Associate Professor of Ancient Languages.

BOLLING JAMES DUNN, A. M.,
Associate Professor of Mathematics.

PERCY HARGRAVES WALKER, M. S.,
Associate Professor of Chemistry and Physics.

JOSEPH WILLIAM CARR, A. M., Ph. D.,
Associate Professor of English and Modern Languages.

JAMES WYSE KUYKENDALL,
Principal of the Preparatory Department.

GEORGE KARR SPENCER, Captain United States Army,
Professor of Military Science and Tactics, and Commandant.

INSTRUCTORS AND OFFICERS.

HADGIE BOOKER DAVIES, A. B.,
Adjunct Professor of English and Modern Languages.

BURTON NEILL WILSON, B. Sc., M. E.,
Adjunct Professor of Mechanical Engineering and Assistant Superintendent of Mechanic Arts.

*Absent on leave

WILLIAM ANDREW TREADWAY, B. E. E.,
Instructor in Electrical Engineering.

MACK MARTIN, M. E.,
Assistant Superintendent of Mechanic Arts.

A. T. GRABER,
Musical Director.

MRS. LAURA ANDERSON,
Director of the Vocal Department.

GEORGE ALBERT COLE, A. M.,
Instructor in Mathematics and Bookkeeping.

EMMA WILMER COLE, A. B.,
Instructor in History, Latin, and Mathematics.

MARY ANNE DAVIS,
Instructor in English and History.

LINA XANTHIA REED, A. B.,
Instructor in English and History.

JENNIE WARD BOWMAN,
Instructor in Elocution and Physical Culture.

NAOMI JOSEPHINE WILLIAMS, A. M.,
Instructor in Latin, History, and Geography.

JOBELLE HOLCOMB, A. B.,
Instructor in Latin and Mathematics.

HAMPTON HUDGINS,
Instructor in Civil Engineering.

MRS. NEIL CAROTHERS,
Librarian.

BURTON NEILL WILSON,
Superintendent of Grounds and Buildings.

JULIA WATKINS,
Superintendent of Dormitories.

JOHN GRISSOM,
Engineer.

NOTE.—Names, except that of the President, in the order of official seniority: (1) Professors, (2) Associate Professors, (3) other Instructors and Officers.

AT LITTLE ROCK.

MEDICAL DEPARTMENT.

P. O. HOOPER, M. D.,
Emeritus Professor of the Practice of Medicine.

JAMES H. SOUTHALL, M. D.,
Emeritus Professor of the Practice of Medicine.

JAMES A. DIBRELL, M. D.,
Professor of General, Descriptive, and Surgical Anatomy, and President of the Faculty.

EDWIN BENTLEY, M. D.,
Professor of the Principles and Practice of Surgery.

C. W. WATKINS, M. D.,
Professor of the Practice of Medicine.

L. P. GIBSON, M. D.,
Demonstrator of Anatomy.

LOUIS R. STARK, M. D.,
Professor of Gynecology.

E. R. DIBRELL, M. D.,
Professor of Physiology, Physical Diagnosis, and Clinical Medicine.

FRANK VINSONHALER, M. D.,
Professor of Ophthalmology and Otology.

T. N. ROBINSON, A. B., LL. B.,
Professor of Medical Chemistry and Toxicology.

W. H. MILLER, M. D.,
Professors of Obstetrics.

F. L. FRENCH, M. D.,
Professor of Materia Medica, Therapeutics, Hygiene, and Botany.

E. E. MOSS, A. M., LL. B.,
Professor of Legal Medicine.

CARLE E. BENTLEY, M. D.,
Professor of Clinical Surgery and Dermatology.

JAMES H. LENOW, M. D.,
Professor of Genito-Urinary Organs.

R. W. LINDSEY, M. D.,
W. P. ILLING, M. D.,
E. C. WITT, M. D.,
Special Clinical Lecturers.

ANDERSON WATKINS, M. D.,
Assistant Demonstrator of Anatomy.

WILLIAM A. SNODGRASS, M. D.,
Prosector of Anatomy.

F. L. FRENCH, M. D.,
Secretary of the Faculty, Little Rock, Ark.

LAW DEPARTMENT.

J. H. CARMICHAEL, LL. B.,
Dean.

T. N. ROBINSON, LL. B.,
Secretary.

(Complete list of Instructors and Lecturers on pages 143-144.)

AT PINE BLUFF.

BRANCH NORMAL COLLEGE.

NORMAL DEPARTMENT

J. C. CORBIN, A. M., Ph. D.,
Principal.

JAMES C. SMITH, A. B.,
First Assistant.

THOMAS C. CHILDRESS, L. I.,
Second Assistant.

ANNA C. FREEMAN, L. I.,
Third Assistant.

LOUISA M. CORBIN,
Fourth Assistant.

MECHANICAL DEPARTMENT.

C. E. HOUGHTON, A. B., M. M. E.,
Superintendent.

W. S. HARRIS,
Assistant Superintendent.

E. K. BRALEY, B. M. E.,
Machine and Blacksmith Shops.

LORENZO ELLIS,
Engineer.

AT FAYETTEVILLE.

AGRICULTURAL EXPERIMENT STATION

ROBERT LOVE BENNETT, M. S.,
Director.

ROBERT R. DINWIDDIE, M. D.,
Pathologist and Bacteriologist.

CLIFFORD LEWIS NEWMAN, B. S.,
Professor of Agriculture.

ERNEST WALKER, B. S. Agr.,
Horticulturist and Entomologist.

JOHN FRANKLIN MOORE, B. S.,
Chemist.

GEORGE B. IRBY, B, A.,
Assistant Agriculturist at Newport.

STANDING COMMITTEES OF THE FACULTY.

The President of the University is ex-officio a member of all standing committees.

1. ON DISCIPLINE—Professors Lewis, Houghton, Pickel.
2. ON DOUBTFUL CASES—Professors Droke, Knoch, Kuykendall.
3. ON CLASSIFICATIONS AND PETITIONS—Professors Purdue, Shannon.
4. ON ACCREDITED SCHOOLS—Professors Jordan, Menke, Dunn.
5. ON LIBRARY—Professors Read, McLean, P. H. Walker.
6. ON DORMITORIES—Professors Gladson, Newman, E. Walker.
7. ON ATHLETICS—Professors Futrall, Newman.
8. ON CHAPEL—The President and Commandant.
9. ON RECEPTION OF STUDENTS—Professors Jordan, Houghton, Kuykendall, Cole, Misses Reed and Williams.

THE UNIVERSITY AND THE STATE.

The University is at the head of the public educational system of the State of Arkansas. It seeks to foster the higher educational interests of the State, broadly and generously interpreted, and to make provision for the demands of advanced scholarship in as many lines as its means will permit. It is the aim of its Faculty and Board of Trustees, from year to year, to bring it into still closer articulation with the public schools of the State, and in connection with them to afford to all the youth of either sex ample facilities for liberal education in literature, science, and the industrial arts, and for the professional studies.

Through the aid received from the United States and from the State of Arkansas, the University is enabled to offer to its students free tuition, except in the studies of Law, Medicine, and Music, and to open wide her doors to all seekers of learning.

The institution was established by virture of an act of Congress donating public lands for educational purposes, and in accordance with an act of the General Assembly of the State of Arkansas.

LOCATION.

The University, except its Medical and Law Schools and Branch Normal College, is located at Fayetteville, Washington County, Ark. Situated in the heart of the Ozark Mountains, it is more than 1,500 feet above the sea level. The location

is thought to be unsurpassed in salubrity of climate, in beauty of surrounding scenery, in variety and perfection of agricultural and horticultural productions, and in the morality and intelligence of its people.

Students may reach Fayetteville from both the north and the south by the Texas branch of the St. Louis and San Francisco Railroad, which has three trains daily each way, and various connections with other roads both north and south.

BUILDINGS.

UNIVERSITY HALL.

This is a brick structure with cut stone trimmings and a stone foundation. It is four stories in height above the basement. It consists of a front building 214 feet in length, and two wings, each 124 feet in depth, the whole forming three sides of a quadrangle. This building contains a large number of class rooms, Chapel, Library and Reading Room, separate Study Halls for the boys and girls of the Preparatory Department, Armory, Magazine, Band Room, Laboratories for Engineering, Biology, and Geology, Music and Art Rooms, President's and Commandant's Offices, Natural History Museum, Examination Hall, Literary Society Halls, Toilet Rooms, etc., in all, seventy rooms, together with broad corridors and stairways. The building is heated by steam, lighted by electricity, and supplied with water from the city waterworks.

SCIENCE HALL.

This building, designed especially for the departments of Chemistry and Physics, is a substantial two-story brick building, 50 by 90 feet. The basement is fitted up with suitable furnaces for assaying and metallurgical work. On the first floor are the lecture rooms of the two departments, the physical laboratory and storerooms, and also the private laboratory of the professor in charge. On the second floor are the chemical laboratories, including a laboratory for general chemistry, a laboratory for qualitative analysis, and a laboratory devoted to quantitative analysis; also a storeroom for chemical supplies, a weighing room, and a hallway. The building is supplied with gas, water, and steam heat, and with modern appliances for technical work. It will accommodate about 150 students.

BUCHANAN HALL.

This is a substantial and handsome brick building, three stories high, and containing over forty rooms. It is favorably located, with a view to the health of the occupants, and convenience of access to University Hall. The rooms are large, well ventilated, and lighted, and open into broad corridors extending lengthwise through the building. From a wide veranda in front, there are three entrances to the building. There are also two rear entrances, and on the third floor a suite of rooms

fitted up for an Infirmary. Through the generosity of the ladies of Fayetteville, this suite of rooms has been thoroughly equipped. By the aid of the superintendent and the liberality of the students and citizens a handsome suite of parlors has been tastefully and elegantly furnished. In the rear of the Hall a brick building has been erected which furnishes bath and toilet rooms, supplied with cold and hot water.

THE NEW DORMITORY.

The new Dormitory for which a special appropriation was made by the Legislature of 1901, has been erected. It is located west of the main University building and north of Buchanan Hall, and is convenient of access to both buildings. It is a substantial brick structure three stories high, with a foundation of range stone work, and with trimmings of dressed limestone, and contains in all some twenty-five rooms. The first story contains a commodious dining hall 38 by 86 feet, which is sufficiently large to accomodate all students who occupy rooms in University dormitories. On this story also are kitchen, storeroom, furnace room, coal bin, etc. The second and third stories contain some twenty rooms for students besides ample corridors, stairways, etc. The entire building is heated by a furnace, lighted by electricity, and supplied with water by the city water works.

AGRICULTURAL BUILDINGS.

The principal buildings of the Agricultural Experiment Station are of brick, one story in height. They contain several offices, the laboratories of the Station, the Station Museum, and several commodious storerooms. Belonging to the Department of Agriculture are a large barn, stock shed, dairy house, and other necessary outbuildings. There is also a handsome and conveniently located cottage residence for the manager of the University farm.

HORTICULTURAL BUILDING.

This structure is 60 by 23 feet, is heated by steam, and supplied with improved ventilating apparatus and other modern conveniences. Atatched to this is a building 24 by 30 feet, which is designed to be used as a laboratory for plant study. The equipment thus provided furnishes much-needed facilities for study and research to all persons interested in plant life, and especially to students of horticulture.

The building is located north of University Hall, and together with the improvement of the adjacent grounds, adds much to the sightliness of that part of the campus.

THE SHOPS.

The Mechanical Engineering building is of brick with stone foundations, 155 by 40 feet and two stories in height. It contains the Mechanical

Engineering, drawing and recitation rooms, Mechanical Laboratory, Machine shop, Wood shop, Foundry, and Forge shop. The Boiler house adjoining is 35 by 40 feet.

These buildings are all heated by steam and provided with city water. The shops will accommodate about 75 students at one time, and the drawing rooms about 30.

THE LIBRARY.

The Library occupies the north wing of the main building, second floor. It now contains about 8,000 volumes, with numerous pamphlets, maps, charts, etc. Shelves are provided for 14,000 volumes, with room for expansion. There are also special libraries belonging to various departments comprising near 1,800 volumes.

The privileges of the Library, under proper regulations, are free to all students.

The Dewey decimal system of classification and the Cutter book-numbers are used, thereby simplifying the circulation of books and the general care of the Library.

The leading high class periodicals (including magazines, reviews, and various technical monthlies) are regularly taken, and are bound as they accumulate. This vast fund of current literature is rendered more useful and accessible by "Poole's Complete Index" to periodic literature from 1802 to the present time. A number of daily and weekly papers also come to the Library.

Among the works of general reference in the Library are all the best encyclopedias and dictionaries.

The card catalogue in preparation will greatly facilitate reference and will also greatly increase the usefulness and popularity of the Library.

THE ARMORY.

The Armory is a large, well lighted room, 60 by 80 feet, occupying the entire basement of the north wing of the main building. It is substantially fitted up with arm racks, compartments for equipments, and other conveniences. Two adjacent rooms are assigned to the Military Department, and are used as bandroom and storeroom.

The equipment of the department consists of 300 Springfield Cadet Rifles, of the same model as those used at the United States Military Academy at West Point, 300 sets of infantry equipments, twenty-seven cadet swords (West Point pattern), National colors, flags, signal equipment, ammunition, etc., and a superior set of band instruments.

The arms and equipments are furnished the University by the general government. The other equipments have been purchased by the University and belong to the Military Department. The equipment is sufficient for a battalion of 400 cadets.

THE MUSEUM.

A. H. PURDUE, Curator.

The Museum occupies the fourth floor of the south wing of the main building. Large additions have recently been made to its equipment with a view to facilitate instruction in geology and biology and also to make it of increased interest to the visiting public. That portion of the collection suitable for display is arranged in glass cases, while the working collection is in drawers. Four new sloping-top cases with drawers beneath have recently been added, thus affording space for several thousand specimens.

Relief Maps. For illustration in geology and general interest to the public, there have been placed in the Museum the following relief maps: Geological relief maps of the State of Arkansas, Colorado Canon, Central Tennessee and the United States; a convex relief map of the United States on a section of a globe sixteen feet in diameter; a relief map of Carmel Bay, California; Ice Spring Craters, Utah; Yosemite Valley, Palestine, Mount Vesuvius, the State of California, and San Francisco Peninsula. Other maps are in preparation at the University.

The Mineral Collection. The mineral collection contains about 2,000 specimens, representing the different mineral groups. Many of these specimens are displayed in cases.

The Petrographic Collection. The most val

uable part of this collection consists of the series furnished by the United States Geological Survey, representing sedimentary, igneous and metamorphic rocks. Besides this, there is a valuable collection of building and other stones from different parts of the country.

Paleontological Collection. There is a large collection of fossils in the Museum, but as they have not yet been arranged and catalogued, the number of specimens cannot be even estimated.

The Major Earle Collection. Major F. R. Earle has deposited in the Museum his private collection of minerals and fossils. This collection was formerly in Cane Hill College.

The Zoological and Botanical Collection. This collection consists of 200 birds and mammals, repreresenting 80 species; 200 reptiles and amphibians, representing 40 species; 1,500 fishes, representing 350 species; 1,000 insects and other invertebrates, representing 200 species; several skeletons.

Donations to the Museum will be gratefully acknowledged, and the donors may be sure that anything of value sent to it will be carefully preserved and duly credited to the donor. Collections in the hands of private parties are likely to be soon scattered and destroyed through lack of care or improper handling. The Museum is now prepared to receive collections on deposit, and to preserve and display them under the owner's name until called for.

While our Museum is most important on account of its educational value, it at the same time serves an important purpose in representing the resources of this State.

THE LABORATORIES.

In the laboratories of the University opportunities are afforded for practical instruction in Chemistry, Mineralogy, Physics, Botany, Zoology, Entomology, Horticulture, and in Civil, Mechanical, and Electrical Engineering.

CHEMICAL LABORATORIES.

The laboratories for chemical work are four in number and are situated in Science Hall. The Laboratory of General Chemistry is furnished with desks capable of accommodating eighty students. Each desk has a cupboard and two drawers, and is provided with gas and water. The qualitative Laboratory has desks for sixteen students. Each desk is provided with suitable conveniences for taking care of apparatus, and is supplied with all the common reagents. The room is provided with a hood and other equipments usually found in qualitative laboratories. The Quantitative Laboratory has suitable accommodation for eight students, and beside the usual equipments, a Blake ore crusher and an assay furnace. Adjoining the Quantitative Laboratory is the weighing room, which contains two of Becker's best analytical balances, besides a number of less accurate instruments suitable for

weighing large quantities of chemicals. The storeroom contains all the apparatus and chemicals. The room is in charge of an assistant, who gives out the supplies and keeps the books. This room contains the apparatus for preparing distilled water, and has also some space for laboratory work.

The Physical Laboratory is a room 20 by 70 feet and is provided with large tables suitable for use in performing experiments in General Physics and physical measurements. It has also eight pillars built up from the ground, and independent of the rest of the building, for the accommodation of delicate instruments which would otherwise be disturbed by the vibrations of the floor. The storeroom of physical apparatus is supplied with instruments suitable for illustrating the principles of Physics and for the use of students in practical work.

BIOLOGICAL LABORATORY.

The Biological Laboratory is located on the third floor of the University building, and has accommodation for about forty students. The Laboratory is furnished with work tables, a sink, and the necessary gas fixtures for incubators, sterilizers, etc., also an aquarium for keeping aquatic animals and plants on hand for observation and study. The equipment in apparatus consists of Bausch and Lombi compound microscopes, dissecting microscopes, microtomes, and such other apparatus and chemicals as are needed for practical work in biology. There is a collection of

insects and also apparatus for collecting, drying, preserving, and mounting insects. The Laboratory has a number of skeletons of different animals, and models and charts for teaching plant and animal anatomy.

GEOLOGICAL LABORATORY.

The Geological Laboratory is provided with aneroid barometers, compasses, hand-levels, pedometers, etc., for field work, two petrographic microscopes, and an excellent equipment of drawing apparatus for the construction of geological sections and topographic maps; also, with apparatus for the construction of relief maps.

There is a well-equipped laboratory for Determinative Mineralogy, and a room for the preparation of relief maps and other work connected with the department of geology.

MECHANICAL ENGINEERING LABORATORY.

The laboratory contains the following machinery:

One 15-horsepower vertical boiler.

One 10-horsepower slide-valve steam engine.

One 10-horsepower Hamilton gasoline engine.

One 3x4 Duplex steam pump, and one 60,000 pound Rheile testing machine.

The laboratory is well provided with apparatus for experimental work, including steam calorimeters, engine indicators and counters, injectors,

thermometers, pressure guages, measuring tanks, feed-water heaters, condensers, etc.

The steam boilers used for heating the University buildings are arranged so as to be available for experimental work, and the shop engine, a Corliss, is also used for purposes of instruction.

ELECTRICAL LABORATORY.

The Electrical Laboratory affords excellent facilities for experimental work with practical dynamo-electric machines. In the laboratory will be found the leading types of machines for arc and incandescent lighting, and for power; constant current and constant potential motors and generators, representative of the different methods of power transmission; a Kelvin balance, standard cells, and a potentiometer for standardizing measuring instruments; Weston and other voltmeters and ammeters; electro-dynamometers; galvanometers of the tangent, reflecting, and Deprez d'Arsonval types; magnetometers; standard resistance coils and bridges, and absorption dynamometers.

During the past year there have been added two Kelvin voltmeters, a D. C. A. C. polyphase motor-generator, a standard photometer, and a large number of smaller pieces of apparatus.

This equipment, to which valuable additions are made from time to time, enables the student to carry on experimental work of a very wide range, and to attain proficiency in operating and testing electrical machinery and instruments.

Students are also allowed to inspect the plant of the Fayetteville Electric Light and Power Company, and to take measurements and make tests on it. The Electrical Laboratory is connected with their primary mains, and is thus supplied with alternate currents at 2,000 volts potential for experimental work.

CIVIL ENGINEERING LABORATORY AND EQUIPMENT.

The Civil Engineering Laboratory is provided with all necessary instruments for work in land, railroad, and city surveying. The equipment of field instruments has been selected so as to afford students the opportunity of becoming familiar with the instruments of different manufacturers. Among the usual field instruments there are a number of engineers' transits, theodolite, Y levels, transit with solar attachment, compasses, hand levels, standard and ordinary steel tapes, aneroid barometers, plane table, sextant, etc.

During the past year the laboratory has been entirely remodeled, now occupying two large, well lighted rooms in the basement of the main building. An equipment for work in practical astronomy has also been added, consisting of a large Altazimuth, reading to seconds by levels and micrometers; a sidereal clock with break circuit attachment and a chronograph reading to tenths of seconds.

CEMENT LABORATORY.

The equipment for the purpose of testing the strength of mortars and cement, includes one 2,000-pound tensile testing machine, standard consistency apparatus, Vicat's and Gilmore's needles for determining set, metal moulds for tension, compression and transverse test-pieces, steaming apparatus for blowing tests, and sieves for fineness.

SHOP EQUIPMENT.

The machine shop contains a Westinghouse engine, which runs the machinery in the whole building, a large iron planer, a shaper, four lathes of different sizes and makes, drill press, two grinding machines, milling machine, 60,000-pound testing machine, and a good supply of hand tools, benches and materials.

The forge shop contains twelve Buffalo forges with down draft which takes the smoke away through under-ground pipes, thus avoiding the smoke and dirt of the ordinary blacksmith shop. It also contains a shearing and a punching machine, twelve anvils of different weights, and all the necessary blacksmith tools for the twelve forges.

The wood shop contains one buzz planer, one large cylinder planer, circular saw, band saw, double spindle shaper, mortising and boring machine, five smaller lathes, one 18-inch pattern maker's lathe, and eighteen benches, each equipped with a complete set of carpenter's tools.

The foundry contains one Colliau cupola with a capacity of one and one-half tons of iron per hour, one brass furnace of 150 pounds capacity, a Buffalo pressure blower, and a core oven.

The foundry is well equipped with moulder's tools, flasks, etc.

The boiler room contains two 75-horsepower boilers, one 40-horsepower boiler, feed pump, injectors, feed-water heater, measuring tanks, etc.

The various departments of the shop building afford facilities for giving practical instruction to sixty or seventy students at one time.

Among the facilities for instruction in engineering contained in the equipment of the University in addition to the shop equipment may be mentioned:

A Dean steam pump with air chamber, water and steam cylinders, and valve chambers sectioned, so that a student may see the working parts.

A Cameron steam pump with a steam cylinder sectioned, showing the valve motion.

A Knowles pump in full working order.

A Blake steam pump in section.

Sections of injectors.

A model of a Stevenson's link motion.

A collection of samples of manufactured articles, such as steam pipe coverings, leather beltings, lubricating oils, etc.

DRAWING ROOM.

The equipment includes the usual table and stools; and among the special apparatus and instru-

ments may be mentioned the planimeter, odontograph, slide rule, set of railroad curves, etc. A blue-print room has recently been fitted up with complete facilities for the details of the blue-print process. The room is also provided with photographic facilities which will be used to prepare lantern slides and prints illustrating various branches of engineering.

PHYSICAL CULTURE ROOM.

At the opening of the past year a large room on the north wing of the main building was set apart for the use of the Department of Physical Culture. This room has been furnished as far as means were available with the equipment necessary for systematic physical training.

CONDITIONS OF ADMISSION.

Candidates for admission are urged to be present at the beginning of the session. Admission at a later date is not refused, but is attended with greater or less inconvenience.

Students on their arrival in Fayetteville should report promptly to the President. Needless delay in reporting or unseemly conduct may justify exclusion from the University.

Applicants should present certificates of honorable discharge from the school last attended, or furnish other testimonials of good moral character.

Examinations for admission to the Freshman class will be held in the following subjects:

1. *English.* The admission requirements in English are those of the American Association of Colleges, and most of the leading institutions in the United States. The examination is divided into two parts.

(*a*) *Reading and Practice.* A few books are assigned for reading. The candidate is required to present evidence of a general knowledge of the subject-matter of these books, and to answer simple questions on the lives of their authors. The form of the examination will usually be the writing of a paragraph or two on each of the several topics set in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and calls

for only a general knowledge of the substance of of the books. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of these books.

The books set for this part of the examination are:

1902-1903—Goldsmith's Vicar of Wakefield; Cooper's Last of the Mohicans; Lowell's Vison of Sir Launfal; Shakespeare's Merchant of Venice; Pope's Iliad, Books I, VI, XXII and XXIV; the Sir Roger de Coverly Papers in the Spectator; Scott's Ivanhoe; Coleridge's Ancient Mariner; Tennyson's Princess; George Eliot's Silas Warner.

(*b*) *Study and Practice.* Other books are assigned for more careful study. The examination upon these book covers subject-matter, form, and structure, and also tests the candidate's ability to express his knowledge with clearness and accuracy.

The books set for this part of the examination are:

1902-1903—Burke's Speech on Conciliation with America; Macaulay's Essays on Milton and Addison; Shakespeare's Macbeth*; Milton's L'Allegro, Il Penseroso, Comus and Lycidas.

In order to pass this examination, a student must have a good practical knowledge of English Grammar (as much as is contained in Milne's English Grammar), and of an elementary Rhetoric

*Julius Cæsar will be accepted.

such as Carpenter's; and no candidate will be accepted whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

2. *Arithmetic.* The examination will include the whole of some standard arithmetic.

3. *Algebra.* To Simultaneous Quadratic Equations, with special attention to factoring, the theory of exponents, and radicals. The examina- will be taken from Wentworth's Higher Algebra.

4. *Plane Geometry.* All of Plane Geometry will be required for admission to the Freshman class.

5. *History.* The examination will be taken from Shinn's History of the United States and Barnes' General History.

6. *Geography.* Any complete manual, such as Maury's or Frye's, will give the preparation, if thoroughly mastered. Special attention is given to the geography of the United States and of Arkansas.

7. *Physiology.* Martin's Human Body, briefer course.

8. *Latin.* Collar and Daniel's Beginner's Latin Book; the first twenty-five lessons in Bennett's Latin Composition; Cæsar's Gallic War, four books, with questions on grammar and on the subject-matter, military equipment, etc. Lowe and Ewing's Cæsar is recommended. Latin is required for admission in Bachelor of Arts, Bache-

lor of Philosophy, and Normal courses; not in the other courses.

Students are advised to come prepared for all the studies in some one class, otherwise their course is necessarily more or less irregular.

ORDER OF EXAMINATIONS FOR ADMISSION.

Wednesday, September 17.—9 a. m., registration of students; 1 to 3 p. m., Geometry; 3 to 4 p. m., Physiology.

Thursday, September 18.—1 to 3 p. m., Arithmetic; 3 to 4 p. m., Geography.

Friday, September 19.—9 to 12 m., Algebra; 1 to 4 p. m., Latin.

Saturday, September 20.—9 to 11 a. m., English Grammar and Analysis; 11 to 12 m., English Composition, Reading; 1 to 2:30 p. m., U. S. History; 2:30 to 4 p. m., General History.

EXAMINATIONS AT OTHER PLACES THAN FAYETTEVILLE.

Students living at a distance from the University may obtain special local examinations if applied for in due time before the beginning of each session. The questions will be sent on application to the principal of any school or to any county examiner. The questions must be submitted by the principal or county examiner to the candidate under the usual restrictions of a written examina-

tion, and the questions and answers must be returned by the same officer to the University with his indorsement that the examination was properly conducted.

ADMISSION BY CERTIFICATES.

The graduates of accredited schools are admitted to the Freshman class in the University without examination, provided in all cases, certificates from the principal of the school attended be presented, containing specific statements of the kind and extent of work done in the studies in which credits are desired. Blank forms for such certificates will be furnished by the University. Students from schools regularly accredited to other universities will be admitted to the Freshman class without examination, provided they present evidence that such schools are duly accredited and that they have completed the work required for admission to the Freshman class of this University in the courses which they desire to take.

A student who presents a certificate of scholarship from a high school, academy, or college not on the list of accredited schools, is required to take such examinations as may be prescribed. The result of such examinations, together with the certificates, will be passed on and proper credit allowed by the professors of the departments which such student proposes to enter.

ADMISSION TO ADVANCED STANDING.

Candidates for admission to classes in advance of the Freshman will be required to pass satisfactory examinations in the subject previously pursued by the class which they propose to enter. But such candidates coming from colleges or universities of good standing may on the presentation of the proper certificates as to the studies pursued be admitted provisionally to such standing and upon such terms as the Faculty may deem equitable in each case.

ACCREDITED SCHOOLS.

On application from the principal of any high school, academy, or other institution, an officer of the University will visit and examine the organization and work of such school. The points to be observed are the subjects included in the course of study, the extent of instruction in each subject, the text-books used, the length of the session, length of the recitation hours, methods of teaching, facilities for instruction, and the discipline. Upon a favorable report, submitted in writing by the visiting officer, the school is declared by vote of the Faculty duly accredited to the Freshman class of the University.

Any changes that may occur, especially in the principalship of the school, or in its course of study, should be reported to the President of the University, as the list of accredited schools is subject to yearly revision.

The University earnestly desires to cultivate friendly and harmonious relations with all other educational enterprises of the State, and to add to its list all schools that are doing the required work and that desire to assume the accredited relation.

LIST OF ACCREDITED SCHOOLS.

Harrison High School, Principal, J. H. Caldwell.

Bellefonte High School, Principal, J. C. Eaton.

Fort Smith High School, Principal, B. W. Torreyson.

Little Rock High School, Principal, R. C. Hall.

Marianna Institute, Principal, S. E. L. Brown.

Lonoke High School, Principal, W. N. Hamlin.

Pine Bluff High School, Principal, J. H. Witherspoon.

Paris High School, Paris, Tex., Principal, J. G Wooten.

Helena High School, Principal, W. W. Rivers.

Hot Springs High School, Principal, George B. Cook.

Amity High School, Principal, S. M. Samson.

Paris Academy, Paris, Ark., Principal, W. M. Wear.

Dardanelle High School, Principal, J. C. Bunch.

Eureka Springs High School, Principal, C. S. Barnett, Eureka Springs, Ark.

Southwestern Academy, Magnolia, Ark., Principal, J. W. Cantwell.

Texarkana High School, Principal, Andrew Rose.

Hope High School, Principal, P. T. Walker.

Thompson's Classical Institute, Paragould, Ark., Principal, R. S. Thompson.

Jonesboro Training School, Principal, F. R. Alexander.

Fordyce Training School, Principal, J. D Clary, Fordyce, Ark.

Camden High School, Principal, H. H. Harper, Camden, Ark.

Spears-Langford Military Academy, Principals, G. S. Storey and R. B. Willis, Searcy, Ark.

Van Buren High School, Principal, A. L. Peacher, Van Buren, Ark.

Green Forest Academy, Principal, H. P. Burney.

Arkansas Cumberland College, Principal, J. T. Perigo.

Springdale High School, Principal, W. D. Gray.

GENERAL INFORMATION.

SELECTION OF COURSES OF STUDY.

Students are allowed all reasonable freedom in choosing their courses of study. But they are required to pursue their studies in the the order prescribed, and, when candidates for a degree, to complete, as a condition of graduation, all the subjects in the course leading to such degree. Changes in the course of study selected are discouraged, but for sufficient reasons are allowed if made within three weeks after admission; subsequently no such change can be made during the session except by the express permission of the Faculty.

NUMBER OF RECITATIONS.

Not less than twelve nor more than eighteen recitations or their equivalent per week, exclusive of military science and tactics, are allowed, except by permission of the Faculty. Two hours of laboratory, shop or farm work, drawing or sight-reading, are counted equivalent to one recitation. If less than twelve recitations or their equivalent per week are specified in any course, studies must be elected to make up the deficiency.

CLASSIFICATION OF STUDENTS.

The satisfactory completion of the work of a class as attested by daily recitations and examina-

tions is the condition of enrollment in a higher class. Some margin, however, is allowed for making up studies in arrears. But more than six hours per week required for such studies or more than six hours per week omitted from the studies of a given class prevents enrollment therein, except that in the engineering courses the number in both cases may be as many as eight. No student can be classified as Freshman in any course who has more than six hours per week of unfinished preparatory work.

SPECIAL STUDENTS.

1. Students are advised to pursue, in all cases in which it is practicable, some one of the regular courses leading to a degree. The number of these courses with the liberal provision for electives allows sufficient play for individual preference in the selection of subjects required for a liberal and well rounded education.

2. But students who are not candidates for a degree, but who have completed all the studies below the Freshman class, may elect a special course of study under the supervision of the Classification Committee and with the approval of the professors in charge of the subjects chosen.

3. Persons of mature age (not less than 21 years of age) may elect a special course of study under the direction of the Faculty, provided they show by examination or otherwise that they are

qualified to pursue profitably the studies which they propose to take up.

4. Students in special courses are subject to the same regulations and to the same examinations in the studies pursued as all other undergraduate students.

EXAMINATIONS.

1. Examinations, chiefly in writing, are held near the end of each term. The grades are determined by combining the values of the daily recitations and of the examinations, and are divided into five groups, as follows: "Excellent" (E); "Good" (G); "Fair" (F); "Poor" (P); "Bad" (B). A grade not lower than "Fair" is required for a "pass," which is the equivalent of about 75 per cent. At the end of each term a report is made to the parent or guardian of each student showing his progress, general conduct, etc.

2. If a student has failed in any study, he may nevertheless be allowed to take up the next study in advance, provided he be deemed, by the professor in charge of the department to which such study belongs, not incompetent to pursue it; but he will be required to pass a satisfactory examination in the study in which he failed, or take it up with the next class.

3. If a student has proved competent to continue his advanced work, but has not completed all the preceding studies in his course, he must resume

the latter, and if he be found to be overworked, he will be required to drop a part of his advanced work.

APPOINTMENT OF BENEFICIARIES.

An act of the General Assembly of the State of Arkansas "To Regulate the appointment of Beneficiary Students in the University of Arkansas, and to amend section 4088 of the Digest of the Statutes of 1894," approved April 19, 1895, reads as follows:

"*Section 4088.* It shall be the duty of the Board of Trustees to apportion the number of beneficiaries who shall be admitted as students in the University, without tuition, among the several counties of the State according to population, and to notify the county judge of each county of the number apportioned to the county at least two months prior to the beginning of each regular annual session of the school; and it shall be the duty of the county judge to appoint from the actual residents of the county the number of beneficiaries to which it may be entitled, a preference being given to those noted for diligence and proficiency in study; and the appointment so made shall be entered of record. If the judge of any county shall fail to appoint its quota of beneficiaries, or if those appointed shall fail to attend, the President of the University shall appoint such beneficiaries to the full number authorized by law from other

counties having their full quota; *provided*, such appointments shall be vacated on application of the county judge of a county so failing to fill its quota."

NUMBER OF BENEFICIARIES.

The number of beneficiaries fixed by the Board of Trustees is 1,000, distributed to the counties of the State in proportion to the population.

There is also one "Honorable Scholarship" to each county, to be awarded for superior merit and proficiency, from the public schools of each county, according to section 2, of act of July 23, 1868.

All the beneficiary students should be present if practicable at the opening of the first term.

Appointments of beneficiaries are made for a period of four years, but failure to enter the University within a reasonable time, or absence from the University for a year or more, forfeits the appointment. Withdrawal at any time during the session may be construed to forfeit an appointment. A student may be reappointed after an appointment has expired or been forfeited.

QUALIFICATIONS.

County judges, in appointing beneficiaries, are requested to note that applicants will be required to pass satisfactory examinations in the following subjects as a condition of admission to the lowest preparatory class.

1. The Grammar School Arithmetic.

2. Maxwell's Elementary Grammar and Composition or its equivalent.

3. The whole of some Complete Manual of Geography.

4. Proficiency in spelling, reading and writing.

It is *highly important* in making appointments to *note carefully these requirements: otherwise students coming to the University unprepared incur needless expense and go away disappointed and often discouraged.*

FORM OF APPOINTMENT.

Students who have been appointed beneficiaries must bring evidence of appointment in the following form, to be sent by the judge of the county court, in accordance with the sixth section of an act approved March 6, 1875.

(FORM I—APPOINTMENT.)

No.... [To be given to the student.]

To Whom It May Concern:

I hereby appoint....., of .....County, State of Arkansas, as a beneficiary to the University of Arkansas.

Given under my hand this.....day of ....., 190....

Send a notice like the following to the President of the University, and one to the Secretary of the Board of Trustees, at Fayetteville:

(FORM 11—NOTICE TO THE PRESIDENT OF THE UNIVERSITY.)

....Arkansas,

.....

To the.....University:

I hereby notify you that I have this day appointed..... of.....County, State of Arkansas, a beneficiary of the University of Arkansas.

Given under my hand this....day of ..... , 190....

APPORTIONMENT OF BENEFICIARIES.

Counties		Counties	
Arkansas	10	Lee	16
Ashley	13	Lincoln	12
Baxter	7	Little River	6
Benton	24	Logan	19
Boone	15	Lonoke	15
Bradley	8	Madison	15
Calhoun	7	Marion	10
Carroll	16	Miller	12
Chicot	12	Mississippi	9
Clay	13	Monroe	12
Clark	15	Montgomery	7
Cleburne	8	Nevada	17
Cleveland	10	Newton	6
Columbia	19	Ouachita	15
Conway	16	Perry	6
Craighead	8	Phillips	28
Crawford	11	Pike	3
Crittenden	11	Poinsett	7
Cross	6	Polk	3
Dallas	9	Pope	19
Desha	11	Prairie	10
Drew	15	Pulaski	45
Faulkner	17	Randolph	12
Franklin	18	Saline	11
Fulton	8	Scott	19
Garland	11	Searcy	7
Grant	8	Sebastian	28
Greene	9	Sevier	8
Hempstead	24	Sharp	12
Hot Spring	10	Stone	8
Howard	12	St. Francis	10
Independence	21	Union	16
Izard	14	Van Buren	11
Jackson	15	Washington	30
Jefferson	29	White	21
Johnson	15	Woodruff	12
Lafayette	6	Yell	18
Lawrence	10		

FEES AND EXPENSES.

Beneficiary students pay no tuition except in Music. (For terms in Music, see Department of Music.)

Admission fee, per session, charged all beneficiary students $5.00
Tuition per year to non-beneficiary students $30.00
Furniture for dormitory students, from.....$6.00 to $15.00
Board in dormitory at cost, per month, from....$8.00 to $9.50
Board in private families, per month, from.....$10 to $15.00
Uniform, including cap, purchased by male students, from..... ....$14.00 to $17.00

The necessary expenses of a student who wishes to live cheaply are:

Board in dormitory, 9 months, about.....$80.00
Washing, 9 months, about.....$9.00
Furniture, first year only..... .....$6.00 to $15.00
Admission fee $5.00
Total expenses first year, including uniform, but not other clothes or books, about $109.00
Total expenses, after first year, about.....$94.00

Admission fees are payable in advance; tuition fees are payable one-half at the beginning of each term. Board bills are payable monthly in advance.

A diploma fee of $5 is charged all graduates. All dues are to be paid or satisfactorily adjusted before diplomas are conferred.

BOARD FOR YOUNG MEN.

Rooms in the University dormitories are free, but occupants provide their furniture, fuel, and lights. Students leaving the University frequently

sell their furniture at a small reduction. If there are not rooms enough for all, preference is given to Arkansas students. An officer of the University is in charge of the building, and the rooms are inspected by the Faculty whenever deemed necessary.

Students boarding elsewhere are under the supervision of the President of the University, and are allowed to board only at places approved by him. No student is allowed to change his boarding place without the consent of the President.

BOARD FOR YOUNG WOMEN.

Sufficient funds have not yet been secured to provide a dormitory for young women, but all necessary assistance is rendered them in finding homes in private families in the town. Parents, therefore, who send a daughter to the University, should place her under the control of the family with whom she boards, subject to the general supervision of the President of the University.

NOTE.—The Committee on Reception will meet all trains and assist the incoming students in finding eligible boarding places.

ABSENCES AND WITHDRAWALS.

Absences from the University during the session are not permitted except for valid reasons. The right of a parent to withdraw his son at any time, without reason assigned, is recognized, but without so withdrawing him, he can not relieve him of the obligation to attend to his duties at the

University. The incidental absences of students during the session are exceedingly disadvantageous, both to themselves and to the University. While, therefore, the President permits them, in cases where propriety or urgent necessity seems to make them unavoidable, it is held to be a duty to inquire into the reasons for which the permission is solicited.

Parents or guardians who wish to withdraw their children or wards from the University should write to the President stating their wishes. No honorable discharge will be given to a student under age who is unable to produce the written application of his parent or guardian for his withdrawal, nor will an honorable discharge be given to a student under censure of any kind, whether for neglect of duty or other cause, even though he may have the consent of his parent or guardian for his withdrawal from the University.

SALE OF ARDENT SPIRITS PROHIBITED.

By an act of the General Assembly of the State of Arkansas, approved March 6, 1875, it is unlawful for any person to sell or give away any vinous or ardent spirits within three miles of the University of Arkansas, unless it be prescribed by a regular practicing physician for medicinal purposes.

UNIVERSITY ORGANIZATIONS.

LITERARY SOCIETIES.

Material changes have recently been made in the organization of the literary societies, and a new one, the Periclean, has been added. Their meetings, which are held weekly, afford enlarged opportunities for improvement in declamation, composition, debate, etc. Renewed interest in this valuable means of culture is shown by a number of students.

THE WILLIAM JENNINGS BRYAN PRIZE.

A prize fund of $250 has been bestowed upon the University through the liberality of Hon. W. J. Bryan, of Nebraska, and a prize named in his honor and consisting of the annual income of this fund will be offered each year, provided productions worthy of its bestowal be presented.

The prize will be awarded for the best essay on some topic relating to the problems of government, and the subjects for competition will be selected on alternate years by the Department of Economics and Sociology and the Department of History. The contest will be open to students who have Junior or Senior standing, more than half of whose work has been of the grade G, and

to special students in the collegiate department who have thirty-two hours credit of a similar grade.

The subject for the year 1902-1903 will be announced in September, 1902. Further details of the plans of competition may be obtained from the Professor of Economics and Sociology. The competitive essay must be submitted by the first of May, 1902.

THE TREZEVANT AND COCHRAN PRIZE.

Messrs. Trezevant and Cochran of Dallas, Texas, who have extensive business relations in the states and territories of the Southwest, have generously donated to the University a fund of fifty dollars to be awarded for the best original essay on some subject connected with fire insurance. The conditions on which this prize is to be awarded will be the same as those of last year.

PRIZE IN THE MATHETIAN SOCIETY.

Professor G. W. Droke, of the class of 1880, generously offers a prize to be competed for by the members of that society. This prize is awarded for the best declamation.

PRIZE IN THE GARLAND SOCIETY.

Through the liberality of Professor G. A. Cole there is offered a handsome prize to be competed for by the members of the Garland Society. This prize is for the greatest improvement in debate.

THE ARKANSAS UNIVERSITY GEOLOGICAL AND BIOLOGICAL SURVEY.

For the promotion of interest in the natural sciences and a systematic investigation of the many interesting questions of natural history within and adjoining the State, it is proposed to organize the Arkansas University Geological and Biological Survey. A party will be organized for field work during the summer vacation under the direction of the professors in charge of Geology and Biology. Any student whose attainments are such as to permit him to take the work to advantage may be admitted to the party. In each case credit will be given in the University course according to the time spent and the character of the work done. Science teachers and others interested in science throughout the State are cordially invited to avail themselves of this opportunity of doing a pleasant and profitable summer's work.

UNIVERSITY MAGAZINE.

The "Ozark" is a monthly periodical, edited and published by the students of the University. It is sent free to all the accredited schools and to such other schools in the State as may desire it.

RELIGIOUS EXERCISES.

Religious exercises are held regularly in the University Chapel at a given period during each daily session. Students are required to attend.

The churches of Fayetteville cordially welcome

the students to their Sunday Schools and various meetings for prayer and religious instruction. The denominations represented in the city are Baptist, Presbyterian, Cumberland Presbyterian, Methodist Episcopal, Methodist Episcopal South, Protestant Episcopal, Christian, and Roman Catholic. Many of the students are actively engaged in the work of the different church societies and guilds. The Young Men's Christian Association holds regular meetings, and a commendable interest is shown in the work of the Association. Two Bible classes have been organized and weekly recitations are conducted by the officers of the University.

ATHLETIC ASSOCIATION.

The purpose of this organization is to encourage the development of the physical man.

The Association as originally formed consisted of the U. of A. Athletic Club, the U. of A. Tennis Club, the U. of A. Baseball Club, and the U. of A. Football Club; and it is further provided that if any other club, organized by the students of the University for the practice of any sport, game, or exercise not already represented by one of the members of the Association, shall make a written application for membership in the Association, and the said application shall be approved by the governing body of the Association, the petitioning club shall become a member of the Association with all the rights and privileges pertaining to such membership.

FACULTY RULES FOR THE GOVERNMENT OF ATHLETICS.

Rule 1. No one shall participate in any sport as a member of a team representing the University unless he be a bona fide student doing full work in a regular or special course as defined in the catalogue.

Rule 2. No person shall be admitted to any athletic contest who receives any gift, remuneration or pay for his services on the college team.

Rule 3. No student shall be permitted to participate in any athletic contest who is found by the faculty to be a delinquent in his studies.

Rule 4. The elections of Managers and Captains of all athletic teams shall be subject to the approval of the faculty committee on athletics.

Rule 5. Before every athletic contest in which a University team is to be engaged, the captain of such team shall submit to the chairman o the faculty committee on athletics a list of the players eligible under the rules to participate in said contest. It shall be the duty of the captain to exclude all players from the contest except those so certified.

Rule 6. The faculty committee on athletics shall require each candidate for a team to represent the University to subscribe to a statement that he is eligible under the letter and spirit of the rules adopted by the faculty.

Rule 7. No person having been a member of a college athletic team during any year and having

been in attendance less than one college half year shall be permitted to play on any athletic team thereafter until he shall have been in attendance six consecutive calendar months.

MILITARY DEPARTMENT

The head of this department is usually an officer of the United States Army detailed by the War Department for duty at the University.

All male collegiate students are required to take the Theoretical Course, and all male students over 15 years of age, not physically disabled, are required to take the Practical Course in Military Science, the latter including infantry drill, target practice, camping, guard duty, and various other exercises, the course covering the entire period of the student's stay at the University.

The act of Congress donating public lands for educational purposes requires that institutions which are the beneficiaries of such donations include Military Science and Tactics in their course of instruction.

The system of practical instruction closely follows that used in the United States Army. It contains a course of gymnastic exercise for the development and improvement of the arms, chest, legs, hands, and feet. Besides being excellent physical training, this instruction has many advantages mentally. The necessity of being alert, listening for each word of command, and acting promptly

on it, quickens the wit and cultivates the habit of fixing the attention and concentrating the thoughts. In addition to all this, it inculcates in the student a respect for authority and discipline which is equaled by no other system.

The cadets are organized into two battalions, composed of field staff, band, and six companies. The officers and non-commissioned officers are selected from those students who are most proficient in their drill and military studies, and most exemplary in their deportment, the majors, captains, and lieutenants being taken, usually, from the Senior and Junior classes, and sergeants and corporals from the Sophomore and Freshman classes. An office in one of the battalions is one of merit and distinction, and any unbecoming conduct subjects the appointee to reduction to the ranks.

The cadet band, of some twenty pieces, constitutes an interesting feature of the military organization. It receives the best instruction obtainable, practices three hours per week, and takes part in all military ceremonies.

A Competitive drill is held annually at the close of the school year, when prizes are awarded for proficiency in this department.

COMPETITION AMONG THE COMPANIES.

At the competitive drill, held June 17, 1901, between the five companies of the corps of cadets of the University of Arkansas, Company "F" made the highest score. The following is a roll of the

officers, non-commissioned officers, and privates who participated in that contest and were members of the company at that time:

Newman, L. L., Captain.
Triplet, C. H., First Lieutenant.
Hudgins, W. H., Second Lieutenant.
Clancy, W., First Sergeant.

Briggs, O. D., Second Sergeant.
Gladson, A. J., Third Sergeant.
Ellis, W. Y., Fourth Sergeant.
Davis, T., Fifth Sergeant.

Corporals.

Rife, W. B., Gray, C. W., Wood, Clark, Ruggles, W. A.

Privates.

Brooks, B.	Kirksey, D. L.	Oakes, G. C.
Catts, E. C.	Kunz, E. H.	Pratt, F. H.
Connellee, Chas.	Legate, R. H.	Prince, W. H.
Castleberry, L.	Lemon, J. M.	Pool, G. G.
Edwards, H. H.	Less, A. M.	Reeder, R. O.
Frazier, C. W.	Ellis, J. R.	Riblin, O. B.
Joiner, J. E.	Mitchell, L. T.	Stidham, J. A.
Kemp, J. A. C.	McCrary, J. B.	Sullivant, M.
Kimbrew, W. W.	Maguire, W. J.	Tate, J. D.
	Webster, F.	

CAPTAIN'S COMPETITION.

To Captain F. I. Brown, of Company "E," was awarded the sword for being the best drilled captain.

INDIVIDUAL COMPETITION

To Sergeant Roy Lester, was awarded a gold medal for being the best drilled non-commissioned officer.

To Cadet Arthur M. Harding was awarded a gold medal for being the best drilled private.

ARMY APPOINTMENTS

The three students of the Senior class having the highest grade of merit in this department are reported to the Secretary of War, and their names are recorded in the Adjutant General's office and published in the Army Register for that year. The President of the United States, in appointing officers from civil life, gives preference to those whose names are so recorded. Cadet officers on graduation are brevetted in the State Guard with the rank held by them in the Cadet Battalion at the date of their graduation, and recommendations of the commandant of Cadets as to special military qualifications of the graduates of the military course are filed in the office of the Adjutant General of the State and considered in appointing commissioned officers of the State Guard.

A neat uniform of gray cloth, with brass buttons and black trimmings, is required to be worn by all cadets at drill. The uniform, complete, costs about fifteen dollars, and with ordinary care will last an entire year.

ORGANIZATION OF THE CORPS OF CADETS FOR THE YEAR 1901-1902.

Captain George K. Spencer, U. S. Army, Commandant.

FIELD AND STAFF OFFICERS.

Majors.

W. E. Babb. F. I. Brown.

Captain R. Alden, Quartermaster.
First Lieutenant O. D. Briggs, Adjutant.
First Lieutenant D. C. Mooring, Ordnance Officer.

Battalion Adjutants.

Second Lieutenant G. G. Hays.
Second Lieutenant R. G. Middleton.

Band.

Second Lietenant F. M. Billings, Commanding.
Second Lieutenant F. H. Davis.
Second Lieutenant G. C. Worthley.

Principal Musicians.

D. Jones. W. F. Reichardt.
Sergeant R. J. Ashley. Drum Major C. M. Conway.

COMPANY ORGANIZATIONS.

COMPANY "A."

Captain C. C. Curry.
First Lieutenant B. W. Langford.
Second Lieutenant H. T. Daniels.
First Sergeant E. T. Archer.

Sergeants.

C. W. Gray. Clark Wood.
E. V. Leverett. J. R. Ellis.

Corporals.

A. Bickle. A. M. Harding.
C. B. Clegg. D. B. Morrow. R. Legate.

COMPANY "B."

Captain A. W. Wasson.
First Lieutenant W. Clancy.
Second Lieutenant S. A. Mitchell.
First Sergeant J. Johnson.

Sergeants.

S. C. Swearingen. B. Mitchell.
W. B. Rife. A. M. Honnett.

Corporals.

*A. F. Stanford.	J. R. Wilson.	R. W. Milum.
J. A. Womack.	H. P. Jordan.	†J. W. Walker.

COMPANY "C."

Captain C. Smith.
First Lieutenant J. L. McConnell.
Second Lieutenant H. Brewster.
First Sergeant V. P. Knott.

Sergeants.

W. A. Ruggles.		R. E. Curry.
‡C. M. Conway.	R. Taylor.	§C. X. Williams.

Corporals.

J. S. Tate.	C. E. Hipolite.	B. McGehee.
‖N. P. Pope.	‖F. Webster.	¶C. W. Reed.

COMPANY "D."

Captain H. E. Buchanan.
First Lieutenant G. Stubblefield.
Second Lieutenant T. Davis.
First Sergeant F. W. Holt.

Sergeants.

M. L. Cotton.		R. E. L. Austin.
W. M. Harris.		E. Clark.

Corporals.

T. Risser.		W. W. Kimbrough.
C. W. Jones.	B. O. Jackson.	N. Caruthers.

COMPANY "F."

Captain R. B. Barton.
First Lieutenant R. D. Mesler.
Second Lieutenant A. McGehee.
First Sergeant L. J. Cook.

*Promoted from Private Dec. 13, 1901.
†Promoted to Sergeant Company "F," Dec. 13, 1901.
‡Promoted to Drum Major Dec. 13, 1901.
§Promoted from Corporal Dec. 13, 1901.
‖Promoted from Private Dec. 13, 1901.

Sergeants.

J. S. Abercombie.		H. B. Hill.
¶W. H. McLaughlin.	H. S. Ragland.	A. F. Stafford.

Corporals.

J. Bloom.		G. C. Oaks.
F. H. Berry.	G. W. Jordan.	G. Vaulx.

COMPANY "E."

Captain J. W. Baxter.

First Lieutenant W. Y. Ellis.

Second Lieutenant F. I. Gibson.

First Sergeant C. O. Phillips.

Sergeants.

J. L. Longino.		C. C. Ramsey.
J. F. Muller.		J. P. Womack.

Corporals.

E. W. Chappel.	¶A. H. Beard.	E. H. Kuntz.
M. L. Castleberry.	R. E. Womack.	E. W. McCrary.

¶Discharged.

AGRICULTURAL EXPERIMENT STATION.

R. L. BENNETT, M. S., Director.
R. R. DINWIDDIE, M. S., Pathologist and Bacteriologist.
C. L. NEWMAN, B. S., Agriculturist.
ERNEST WALKER, B. S. A., Horticulturist and Entomologist.
GEORGE B. IRBY, B. A., Assistant in Feeding Experiments.
J. F. MOORE, B. S., Chemist.

The National Government established the Experiment Station as a department of the University in 1887, and maintains it to investigate agricultural problems for the aid of the farmers of the State.

The work of the Experiment Station is divided into the special lines of Agriculture, Horticulture, and Entomology; Chemistry, Animal, and Plant Diseases; Animal Production, Pomology, and Farmers' Institute work. Specialists are employed in each line, and experiments are made both in the field and laboratory in the improvement of soils, the rotation of crops, diseases of plants and domestic animals, in fertilizers, the value of stock foods, dairying, and other matters. Students interested in agricultural subjects are given opportunity to observe the experiments and to acquaint themselves with the work of the Station in its various departments; the bulletins are also available for their use. The experiments and their results are published in bulletins, which are sent free to farmers, stock raisers, and fruit growers of the State, and to others interested in agriculture.

Those who desire the Station bulletins should apply for them to the Director of the Station, Fayetteville, Ark. One application is sufficient to obtain all future bulletins, if desired.

DEGREES.

The following degrees are conferred by the University:

For undergraduate work:

Bachelor of Arts (B. A.).
Bachelor of Philosophy (B. Ph.).
Bachelor of Science (B. S.).
Bachelor of Civil Engineering (B. C. E.).
Bachelor of Mechanical Engineering (B. M. E.).
Bachelor of Electrical Engineering (B. E. E.).
Bachelor of Scientific Agriculture (B. S. A.).

For graduate work:

Master of Arts (M. A.).
Master of Science (M. S.).
Mechanical Engineer (M. E.).
Civil Engineer (C. E.).
Electrical Engineer (E. E.).

The number of hours required for graduation in all courses leading to the degrees of B. A., B. Ph., and B. S. is sixty-four, exclusive of military science and tactics.

The courses leading to these degrees have been planned with the view of retaining as required studies those subjects which seem essential for all who are candidates for a liberal degree, and, at the same time, of allowing as large freedom of selection as is consistent with the attainments of a sound education.

SCHEDULE OF STUDIES FOR THE DEGREES.

B. A.

FRESHMAN YEAR.

	Hours Per Week.
English 1	3
Latin 1	3
Greek 1	4
Mathematics 1	3
History 1	2

SOPHOMORE YEAR.

English 2	3
Latin 2	3
Greek 2	5
Mathematics 3	3
Chemistry 1, or Physics 1, or Biology 1, or 2, or 3, or Geology 1 or 2	3

B. Ph.

FRESHMAN YEAR.

	Hours Per Week.
English 1	3
Latin 1	3
Biology 2, or Geology 1	3
Mathematics 1	3
Chemistry 1, or Physics 1	3

SOPHOMORE YEAR.

English 2	3
Latin 2	3
German 1, or French 1	3
Mathematics 3	3
History 1 or 3, or Economics 1	2
Chemistry, or Physics, or Biology 2 or 3, or Geology 1 or 2	3

B. S.

FRESHMAN YEAR.

	Hours Per Week.
English 1	3
German 1	3
Chemistry 1	3
Mathematics 1	3
Biology 2, or Geology 1, or Agriculture, or Horticulture	3

SOPHOMORE YEAR.

English 2	3
German 2	3
Physics 1	3
Mathematics 3	3
History 1 or 3, or Economics 1	2
Biology 2 or 3, or Geology 1 or 2, or Chemistry, or Agriculture, or Horticulture	3

SCHEDULE OF STUDIES FOR THE DEGREES—Continued.

B. A.

JUNIOR YEAR.

	Hours Per Week.
English 3, 4, or 5	2
Latin 3, or Greek 3	3
History 2, or Economics 1.	3
Elective	8

SENIOR YEAR.

English 6 or 7	1
Philosophy 1 and 2	3
Some language already studied.	3
Elective	9

B. Ph.

JUNIOR YEAR.

	Hours Per Week.
English 3, 4, or 5	2
German 2, or French 2	3
History 2 or 4 and 5, or Economics 2 or 7	3
Elective	8

SENIOR YEAR.

English 6 or 7	1
Philosophy 1 and 2	3
History, or Economics 2 or 7	3
Elective	9

B. S.

JUNIOR YEAR.

	Hours Per Week.
English 3, 4, or 5	2
History 2 or 4 and 5, or Economics 2 or 7	3
Chemistry, or Physics, or Biology 4 or 5, or Geology	3
Elective	8

SENIOR YEAR.

English 6 or 7	1
Philosophy 1 and 2	3
A natural or physical science already studied	3
Elective	9

NOTE 1.—The figures immediately following each subject refer to the Description of Courses beginning on page 68.

NOTE 2.—For courses in Engineering see pp. 97, 102, 106; in Agriculture, 114; in Horticulture, 117; in Normal Department, 90; in Music, 118; in Elocution, 122; in Physical Culture, 124.

NOTE 3.—In the Junior Year, B. S. Course, Biology 4 is four hours per week, Biology 5 is five hours per week; hence, if these subjects are taken, electives are reduced respectively to seven and six hours.

REQUIREMENTS FOR THE MASTER'S DEGREE.

1. A Bachelor's Degree from this University or another institution in which the course of study pursued is recognized as fully equivalent.

2. That not less than one year intervene between the conferring of the Bachelor's and Master's degrees.

3. That a course of study in one major and two minor subjects aggregating, with a thesis, sixteen hours per week be pursued in residence at the University for not less than one year. But graduates of this University may do half their work in absence under the direction of the Professors in charge of the subjects chosen, provided that residence at the University during the term preceding final examination for the degree is required.

4. That the major subject covering six hours shall be strictly graduate work and selected in a department in which all undergraduate work has been previously completed.

5. That the two minor studies aggregating eight hours per week shall be chosen from departments in each of which the candidate has already two years' credit, provided that no work credited to the Bachelor's Degree shall be counted toward the Master's Degree.

6. A satisfactory thesis in the major subject, the theme of which shall be approved by the head of the department six months before the final examination. For the thesis a credit of two hours shall be given.

7. That the candidate shall hand to the Professor in charge of the major subject the thesis on or before the 15th of May. Previous to his final examinatiou the candidate shall be questioned on his thesis by a committee composed of the Professors in charge of the major and minor subjects and a Professor of another department to be designated by the Faculty.

REQUIREMENTS FOR THE DEGREES OF C. E., M. E., OR E. E.

These courses of study are intended to give additional preparation for those students who have finished an undergraduate course in Engineering, for some special line of work to which their previous study has led. The student will have all reasonable liberty in selecting such specialties and will be limited only by certain general requirements. He will be required at the beginning of the year to make up the course which he proposes to follow and to present it to the Faculty, approved by the instructors concerned. If accepted, it will be subject to change only by the Faculty. In general, it is expected that these courses shall comprise one principal subject based on the course already pursued, and two secondary subjects, one or both of which should be closely related to the principal. The graduate course should amount to not less than fifteen recitation hours per week as counted in undergraduate work.

The subject of a thesis for any of the above degrees must be submitted to the Faculty for approval before the middle of the second term.

These degrees will also be given to graduates in Civil, Mechanical, and Electrical Engineering who have been in successful practice of their profession for three years and who have submitted a satisfactory thesis on a subject approved by the Faculty.

Charges. Graduate students pay $10 for matriculation and registration, $10 tuition (non-residents, $5) at the beginning of each session, and $10 in advance for the final examination. Students who fail to comply with any of these requirements, or who do not each year complete the equivalent of two terms' work in one subject, will be dropped from the rolls. Should such students desire to resume their studies, they must pay for matriculation and registration, as if beginning for the first time. The diploma fee is $5 in advance in each case.

Graduates attending only undergraduate classes pay the same fee as undergraduates.

Non-resident students have such assistance and instruction in their studies as can be conveniently given by correspondence.

HONORS.

Students who have attained grade "E" in work aggregating fifty hours per week (counted on the

basis of a four years' course) are granted degrees "with special distinction."

Students who have attained grade "E" in work aggregating thirty-two hours per week, or grade "E" or "G" in work aggregating fifty hours per week, are granted degrees "with distinction."

DESCRIPTION OF COURSES.

ANCIENT LANGUAGES.

J. C. FUTRALL, Professor.
E. F. SHANNON, Associate Professor.

Attention is called to the fact that beginning with the year 1904-1905 the requirements for admission to the Freshman class in Latin will include, in addition to present requirements, four orations of Cicero together with fifteen additional exercises in Bennett's Latin Prose Composition.

For the year 1902-1903 the following courses are offered:

LATIN.

1. *Cicero's Orations and Virgil*.....3

An accurate knowledge of the Latin forms is insisted upon; Bennett's Latin Prose Composition throughout the year.

Associate Professor Shannon.

Required of Freshmen in the B. A. and B. Ph. Courses.

2. *Cicero and Livy*.....3

Systematic study of the grammar; exercises in prose composition, based chiefly upon the authors read in class; sight reading; Roman literature.

Professor Futrall.

Required of Sophomores in the B. A. and B. Ph. Courses.

3.*a* *Prose Composition*.....1

The translation of connected passages of idiomatic English into idiomatic Latin.

Associate Professor Shannon.

Required of Juniors in the B. A. Course who take Latin instead of Greek.

3*b*. *Horace and Livy*.....2

Horace, Odes and Epodes; Livy, Books 21 and 22; parallel reading; the metres of Horace.

Associate Professor Shannon.

Optional with Course 4 for Juniors in the B. A. Course who take Latin instead of Greek.

4. *Cicero and Tacitus*.....2

Cicero's letters; the annals of Tacitus; parallel and sight reading.

Professor Futrall.

Optional with Course 3b for Juniors in the B. A. Course who take Latin instead of Greek.

5. *Roman Poets*.....3

Readings will be taken from Plautus, Terence, Catullus, Horace, and others, and the attention of the students will be directed rather to the literary side of the authors read than to grammatical and syntactical peculiarities.

Professor Futrall.

Elective for students who have completed Course 3b or 4.

Course 5 may be taken twice and counted towards a degree, as the readings will be changed in successive years.

Text-books: Bennett's and Gildersleeve's Grammars; Wilkin's Primer of Roman Literature; Cruttwell's Roman Literature. Any approved edition of the Latin authors may be used, except when certain editions are prescribed. Lexicons: Harper, Lewis, White.

GREEK.

1. *Elementary Course*.....4

White's Beginner's Greek Book, with selections for reading. A thorough mastery of the forms and constructions given in this book is required.

Associate Professor Shannon.

Required of Freshmen in the B. A. Course.

2. *Xenophon and Lysias* 5

This course is intended to familiarize the student with all the ordinary Attic forms and constructions; frequent exercises in oral and written translation of English into Greek, based upon the text read, are given, and some practice in sight reading; Goodwin's Grammar.

Professor Futrall.

Required of Sophomores in the B. A. Course.

3. *Homer and Plato* 3

Systematic study of the grammar; prose composition; Greek literature; sight reading.

Associate Professor Shannon.

Optional with Latin 3a and 3b or 3a and 4 for Juniors in the B. A. Course.

4. *Thucydides, Demosthenes, and the Drama* . 3

The Course will be conducted on the same plan as Latin 5. It may be taken two years in succession.

Professor Futrall.

Elective for students who have completed Course 3.

Text-books: Goodwin's Greek Grammar; Goodwin's Greek Moods and Tenses; Harper and Tolman's Greek Prose Composition; Higley's Exercises in Greek Composition. Any approved edition of the Greek authors may be used, except when certain editions are prescribed. Lexicon: Liddell & Scott.

ENGLISH AND MODERN LANGUAGES.

WILLIAM A. READ, Professor.
JOSEPH WILLIAM CARR, Associate Professor.
HADGIE DAVIES, Adjunct Professor.

ENGLISH.

1. *Elementary Course* 3

Thorough review of the essentials of English grammar, with frequent practice in composition. The course

includes a study of the poets of America. Text-books: Baskervill and Sewell's English Grammar; Matthew's Introduction to American Literature; Riverside Literature Series.

Miss Davies.

Required of all Freshmen in the B. A., B. S., B. Ph., and Engineering Courses.

2. *Rhetoric and English Literature* 3

Rhetoric and composition; weekly themes and two essays each term. Text-books: Carpenter's Exercises in Rhetoric and English Composition; Pancoast's Introduction to English Literature.

Miss Davies.

Required of all Sophomores in B. A., B. Ph., and B. S. Courses. Elective for all others who have completed English 1.

3. *The English Novel in the Nineteenth Century* 2

A critical study of selected masterpieces, with parallel readings, and essays.

Miss Davies.

4. (*a*) *Shakespeare;* (*b*) *Poetics* 2

Course a: A study of representative plays.
Course b: Lectures on the origin and development of important verse forms. Subjects will be assigned for investigation.
(a) and (b) may be taken separately.

Professor Read.

5. *Old English* 2

An introductory course for students beginning the study of the language. Text-book: Bright's Anglo-Saxon Reader.

Professor Read.

6. *Middle English* 1

A course in the interpretation of selected Middle English texts. In 1902-1903, Havelok (ed. Holthausen).

Professor Read.

7. *Romantic Poets of the Early Nineteenth Century* 1

Selections from Byron, Shelley, and Keats.

Professor Read.

NOTE 1.—Juniors are required to take either Course 3, 4, or 5; Seniors may elect any one of these three.

NOTE 2.—Course 6 is optional with Course 7 for Seniors.

GERMAN.

1. *Elementary Course* 3

Thomas's Grammar; Brandt's Reader; written and oral exercises; parallel reading.

Professor Read.

Required of all Freshmen in B. S. Course and of Sophomores in B. Ph. Course not taking French. Elective in all other courses.

2. *German Literature of the Nineteenth Century* 3

Representative works of Sudermann, Hauptmann, and Wildenbruch; Harris's German Composition; Well's History of German Literature. This course is conducted in German.

Professor Read.

Required of Sophomores in B. S. Course and of Juniors in B. Ph. Course not taking French 2. Elective in all other courses

3. *German Literature of the Eighteenth Century* 2

Representative works of Lessing and Schiller.

Associate Professor Carr.

4. *Goethe* 2

Selected masterpieces of Goethe.

Professor Read.

5. *Advanced German Composition* 2-1

This course is designed particularly for those intending to teach German.

Professor Read.

6. *Scientific German*.....2

Brandt and Day's Reader; Walther's Meereskunde.

Professor Read.

Elective for those who have completed Course 1.

Note.—Courses 3, 4, and 5 are elective for those who have completed Courses 1 and 2.

FRENCH.

1. *Elementary Course*.....3

Bevier's Grammar; Kuhns's French Reading for Beginners, supplemented by easy texts, if time permits; composition and sight reading.

This course is intended to enable the student to read easy French prose at sight.

Associate Professor Carr.

Either French 1 or German 1 required of Sophomores in the B. Ph. Course; elective for all others.

2. *French Novelists of the Nineteenth Century*.....3

Representative works of Balzac, Coppee, Daudet, Dumas fils, Erckmann-Chatrian, Victor Hugo, Merimee. This course aims to impart ability to read average French prose at sight.

Associate Professor Carr.

Either French 2 or German 2 required of Juniors in the B. Ph. Course; elective for all others.

3. *French Composition and Conversation*....2

Grandgent's Materials for French Composition; Rippmann and Buell's French Daily Life.

Associate Professor Carr.

Elective for those who have completed Course 1.

4. *History of French Literature*.....3

A general survey of French literature. This course includes the study of specimens from every period. It prepares for the intelligent study of special periods.

Associate Professor Carr.

Elective for those who have completed Courses 1 and 2.

5. *Moliere's Comedies*.....2

Elective for those who satisfy the instructor of their fitness to pursue the course.

Associate Professor Carr.

6. *Old French*.....2

La Chanson de Roland will be read.
This course is designed especially for those who expect to teach French.

Associate Professor Carr.

SPANISH.

1. *Elementary Course*.....3

Loiseaux's Grammar and Reader; Gil Blas; El Capitan Veneno.

Associate Professor Carr.

2. *Advanced Course*.....3

Galdos, Dona Perfecta; Valdes, Jose; Estibanez, Un Drama nuevo; Calderon, La Vida es Sueno; Lope de Vega, Obras Maestras.

Associate Professor Carr.

Open only to students who have taken Spanish 1 or its equivalent.

ITALIAN.

1. *Elementary Course*.....3

Bowen's Italian Reader; Goldoni's Il Burbero Benefico, Un Curioso Accidente, and La Locandiera; Farina's Fra le Corde di un Contrabasso; De Amicis' Alberto, Un Gran Giorno, and Fortezza; Sauers' Grammar.

Professor Read.

2. *The Italian Novel in the Nineteenth Century*.....3

Representative works of Manzoni, Barrili, Verga, and Serao; Fornaciari's Disegno Storico della Letteratura Italiana.

Professor Read.

Note.—All Courses in Spanish and Italian are Junior and Senior electives.

MATHEMATICS AND ASTRONOMY.

GEO. W. DROKE, Professor.
B. J. DUNN, Associate Professor.

In this department the following courses are offered:

MATHEMATICS.

1. (*a*) *Solid Geometry* (*first term*).....3

Beman and Smith's New Plane and Solid Geometry.

(*b*) *Plane Trigonometry* (*second term*)....3

Crawley's Trigonometry.

Required of all Freshmen.

2. *Algebra*.....2

Hall and Knight's Algebra for Colleges and Schools.

Required of all Freshmen engineers.

3. *Algebra, Conic Sections*.....3

Required of all Sophomores in the B. S., B. Ph., and B. A. Courses.

4. *Determinants, Analytic Geometry*.....3

Tanner and Allen's Analytic Geometry.

Required of Sophomore engineers.

5. *Algebra* (*continuation of Course 2*), *Spherical Trigonometry, Calculus*....2

5*A*. *Analytic Geometry* (*continuation of Course 3*).....2

Junior elective in the B. S., B. Ph., and B. A. Courses.

6. *Differential and Integral Calculus*.....3

Osborne's Calculus.

Required of Junior engineers, elective for Juniors and Seniors in other courses

7. *Spherical Trigonometry, Analytic Geometry*.....3

Elective for Juniors and Seniors in the B. S., B. Ph., and B. A. courses.

8. *Spherical Trigonometry, Theory of Equations, Determinants*.....2

Junior and Senior elective.

9. *Analytic Geometry of Three Dimensions, and Differential Equations*....3

Books of reference: C. Smith's and Frost's Solid Geometry, Salmon's Geometry of three Dimensions.

Senior elective.

Those who desire to make pure Mathematics their major subject, are advised to take Courses 5a and 6 in the Junior year, and Courses 8 and 9 in the Senior.

GRADUATE COURSES.

10. *Modern Pure Geometry, Modern Anayltic Geometry*.....3

11. *Advanced Integral Calculus, Modern Higher Algebra*.....3

12. *Projective Geometry, Theory of Functions*.....3

ASTRONOMY.

13*A*. *Descriptive Astronomy, Lectures and Recitations (first term)*.....2

14*A*. *Spherical Astronomy (second term)*.....2

The class in Astronomy has the use of a new four-inch telescope, sextant, celestial globe, and other simple instruments. The "Laboratory Method" of instruction is followed as far as practicable.

HISTORY AND POLITICAL SCIENCE.

*A. F. LEWIS, Professor.
ARTHUR C. BARROWS, Acting Professor.

COURSES.

1. *History of Greece (first term)*.....2

Required in the Freshman year of all candidates for the degree of A. B. Candidates for the degree of Ph. B. and B. S. are required to take this course in the Sophomore year, unless they have previously taken a course in the history of Greece and of Rome in which case they are required to take course 2. Chief text-book: Oman's History of Greece. Useful adjuncts: Labberton's Historical Atlas (Putzger's Historical Atlas), Plutarch's Lives. Such parallel reading, topical research and informal lectures as occasion may demand and time permit.

1. *History of Rome (second term)*.....2

Required of students as indicated under history of Greece. Chief text-book: Leighton's History of Rome. Useful adjuncts: Labberton's Historical Atlas (Putzger's Historical Atlas), Plutarch's Lives.

2. *Mediæval History (first term)*.....3

To be taken in their Sophomore year by students who have had Greek and Roman history previous to entrance and in their Junior or Senior year by all who have taken course 1. Chief text-books: Duruy's History of the Middle Ages, Labberton's or Putzger's Historical Atlas. Useful adjuncts: Emerton's Mediæval Europe, Ploetz's Epitome or Fisher's Outlines of General History. Reference is made to such sources of additional information about the various epochs, events and persons as our Library affords.

2. *Modern History (second term)*.....3

See first remark under Mediæval History. Chief text-books: Duruy's History of Modern Times, Lab-

*Absent on leave.

berton's or Putzger's Historical Atlas. Courses 6 and 7 give a more minute scrutiny of two important epochs which are discussed briefly in this course. Research upon special topics of interest to the class is made by members of the class and the results reported orally, in writing, or both.

3. *American Political and Constitutional History (first and second term)* 2

From the Revolution to the present, with a review of the colonial period. Elective for all collegiate students. Chief text-books: Lee's Advanced School History of the United States, Johnston's History of American Politics. So far as circumstances allow, reference is made to the secondary sources of American history available in our Library (Winsor, Bancroft, Von Holst, Schouler, etc., and the lives and writings of eminent Americans), to supplement the prescribed texts.

4. *American Civil Government and Constitutional law (first and second term)* 1

Elective for all collegiate students. History of the origin of civil government in America, and discussion of the workings of local, state, and national government. Chief text-book: Fiske's Civil Government.

5. *Political and Constitutional History of England (first and second term)* 2

Elective for all collegiate students. First, a survey of the chief events in the history of the English people. Second, a study of that body of usage and legislation which forms the English Constitution. Individual research upon important topics. Chief text-books: Montgomery's History of England, Wilson's The State, Chapter X, Feilden's Short Constitutional History of England, Colby's Selections from the Sources of English History.

6. *Era of the Renaissance and Reformation (first term)*..... 2

Elective for all collegiate students. Course 6 gives a more detailed study of this important epoch than can be given in course 2. Students will require much time for supplementary reading. Chief text-books: Seebohm's Era of the Protestant Revolution, Symonds' Short History of the Renaissance in Italy.

7. *The French Revolution and Napoleonic Era (second term)* 2

See remarks under Course 6. Text-book: Morris' French Revolution and First Empire.

8. *Comparative Study of American and European Governments (first term)*...2

Elective for collegiate students qualified to take it. This course aims to give some insight into the history and present form of the government of the United States and of the chief nations of Europe. Special research. Chief text-book: Woodrow Wilson's The State.

9. *International Law (second term)*.....2

See remarks under Course 8. A brief sketch of the history of International Law, and a study of some of the chief conventions now considered binding upon civilized nations. Chief text-book: Davis's Elements of International Law.

10. *Political Philosophers*.....1

See remarks under Course 8. Individual research, and lectures by advanced students. A considerable amount of special aptitude and previous work in history are essential. The political writings of Plato, Aristotle, Machiavelli, Hobbes, Locke, Rousseau, and others.

ECONOMICS AND SOCIOLOGY.

S. J. McLEAN, Professor.

The courses offered in this department are designed to afford such instruction as will be advantageous to those who intend to enter public life, or those callings which will bring them closely in touch with the activities of citizenship. Course 1 is required before more advanced courses in this department are taken.

1. *Principles of Economics (both terms)* 2

Recitations, prescribed readings, reports and debates. Text-book: Walker, Political Economy.

2. *Industrial History of America and Europe since 1763 (first term)* 3

The leading industrial facts of this period, including panics and trusts, are considered. A detailed study of some of the more important industries will also be made. Lectures, reports, and prescribed readings. Selected portions of Rand's Economic History will be studied.

3. *Banking (first part of second term)* 3

The principles of Banking and the history of Banking Systems. Lectures, recitations, reports, and readings. Text-book: Dunbar, Chapters in the Theory and History of Banking.

4. *Money (latter part of second term)* 3

The principles of Money and the history of Monetary Systems are considered.

5. *Tariff History and Problems (first term)*.....2

Special attention will be devoted to the Tariff history and problems of the United States. The Tariff history of the leading countries engaging in trade with the United States will be dealt with in outline. Text-book: Taussig, Tariff History of the United States. For reference, State Papers and Speeches on the Tariff edited by Taussig. This will be supplemented by lectures and use of government documents.

This is prerequisite to Course 11.

6. *History of Economic Thought, from Plato and Aristotle to the Present (second term)*.....2

Text-book: Ingram's History of Political Economy; supplementary readings and reports will also be required.

7. *Public Finance (first term)*.....3

Principles and history of taxation, management of public debts, consideration of governmental activities, etc. Text-book: Plehn, Introduction to Public Finance. Lectures, readings, and use of government documents.

8. *Transportation, its History and Problems (second term)*.....3

The economic aspects of water transportation, the great lakes, canal systems, and the Mississippi; the evolution of the railroad system, railroad geography, rate-making, State *versus* private ownership, methods of government control, railroad finances, etc. Lectures, prescribed readings, and use of Railroad Commission Reports. Text-book: Hadley, Railroad Transportation.

This is a prerequisite to Course 11.

9. *Principles of Sociology* (*first term*).....2

This course considers the elements and conditions of social growth and progress. Recitations, lectures, and reading of assigned chapters in Spencer's Principles of Sociology and in Gidding's Principles of Sociology. Text-book: Fairbank's Introduction to Sociology.

This course will not be offered during the year 1902-1903.

10. *Problems of Social Growth (second term)*.....2

Trade-unionism, arbitration and conciliation, socialism, communism, co-operation, and profit-sharing. Lectures and reports. For reference: Ely, The Labor Movement in America, and Ely, French and German Socialism.

This course will not be offered during the year 1902-1903.

11. *Commerce* (*first term*).....2

Theory of foreign commerce; investigation of the commercial resources of the leading countries of the present; study of commercial routes. Students will be expected to acquaint themselves with the United States Consular Reports. Text-book: Chisholm, Smaller Commercial Geography.

12. *Labor Legislation* (*second term*).....2

History and critical investigation of the attitude of the State towards Labor; apprenticeship laws, combination laws, trade-union recognition, factory legislation, compulsory arbitration, etc. For reference: Stimson, Handbook to the Labor Law of the United States.

CHEMISTRY AND PHYSICS.

A. E. MENKE, Professor.
P. H. WALKER, Associate Professor.

CHEMISTRY.

1. *General Inorganic Chemistry* 3

Lectures and recitations twice a week; laboratory work one afternoon throughout the year.

Professors Menke and Walker.

Required for Freshmen B. S., all Engineering Courses, and B. S. A. A prerequisite for all other courses in Chemistry.

2. *Chemical Philosophy* 2

Twice per week, second term. This course supplements the instruction in theoretical chemistry given in Course 1.

Associate Professor Walker.

3. *Analytical Chemistry.*

(a) Recitations twice per week, first term. (b) Laboratory work two afternoons per week for engineering students, three afternoons for scientific students, throughout the year. The recitations are occupied with the discussion of problems depending on the principles of qualitative and quantitative analysis. The object of these discussions is to enable the student to understand the methods of separation as well as to be able to follow them practically. In the laboratory a large number of substances, both simple and complex, are analyzed. Chemistry 13 may be taken as a part of this course.

Associate Professor Walker.

4. *Organic Chemistry* 3

Recitations three times per week throughout the year with laboratory work, if desired. Bernthsen's Organic Chemistry.

Associate Professor Walker.

5. *Quantitative Analysis*.....3 to 8

Laboratory work 6 to 16 hours per week. Practice in gravimetric and volumetric analysis.

Associate Professor Walker.

6. *Quantitative Analysis*.....4

Second course. Analysis of agriculture and food products. First term.

Professor Menke.

7. *Technical Chemistry*..... 3

Three time per week throughout the year. A study of industries having chemical principles and processes for a basis.

Associate Professor Walker.

8. *Physical Chemistry*.....3

Chiefly laboratory work; determination of molecular weights according to the various methods in common use: thermochemical work, measurements of electric conductivity of electrolytes; practice with polariscope, refractometer, etc.

Associate Professor Walker.

9. *Assaying*.....2 to 3

Class meets at convenience of the instructor. Preparing and testing reagents, making cupels, etc., and assaying samples of furnace and mill products. Second term. Text-book: Ricketts and Miller.

Professor Menke.

10. *Toxicology*.....1

Once a week throughout the year. A working knowledge of qualitative and quantitative analysis is a condition requisite for admission to this class.

Professor Menke.

11. *Gas Analysis*.....1

Practical work once a week throughout the year. This course is designed particularly for technical students.

Professor Menke.

12. *Metallurgy*.....3

Three times per week. First term.

Professor Menke.

13. *Water Analysis*.....3

One term, three times per week, for civil engineering students.

Associate Professor Walker.

14. *Electro-Chemistry*.....3

Recitations twice and laboratory once per week second term. For Junior electrical engineering students.

Associate Professor Walker.

PHYSICS.

1. *General Physics*.....3

Recitations twice and laboratory work once per week throughout the year. Recitations and experimental lectures on mechanics, sound, heat, light, magnetism, and electricity.

Professor Menke.

Required for Sophomore B. S. and Engineering students.

2. *Electricity and Magnetism*.....3

Recitations twice and loboratory work once per week throughout the year. Text-book: Silvanus Thomson's Electricity and Magnetism.

Professor Menke.

Required for Sophomore E. E. students.

3. *Physical Measurements*.....2

Measurements in mechanics, sound, heat, light, magnetism, and electricity. Manual: Sabine.

Professor Menke.

DEPARTMENT OF BIOLOGY.

F. W. PICKEL, Professor.

The courses in this department have been arranged to meet the needs of three classes of students: Those who desire to become acquainted with the fundamental principles of plant and animal life; those who contemplate the study of medicine; and those wishing to go more thoroughly into the study of biological science to obtain the technical training necessary for subsequent investigation or for teaching.

1. *General Biology*.....3

This course serves as an introduction to the whole field of biological science, and should be a part of the general education of every student. Types of plants and animals will be dissected and studied in the laboratory and the essential truths of biology emphasized. One recitation and laboratory four hours per week throughout the year. Text-book: Parker's Lessons in Biology.

2. *Botany*.....3

In this course special attention is paid to the morphology, physiology and ecology of plants, but due attention is given to the systematic classification of plants in the second term, and each student is required to collect and write a technical description of a certain number of plants. The geological history of plants and the origin of cultivated plants will be briefly considered. Recitations and laboratory six hours per week throughout the year. Text-books: Barnes's Plant Life; Chapman's Flora of Southern States.

3. *Botany.*

This course will consist of lectures, assigned readings, and laboratory work in morphology, physiology, or

taxonomy. Work and hours arranged after consultation with the head of the department.

Required: Botany 2.

4. *Bacteriology*.....4

An introduction to the subject and instruction in laboratory technique—the preparation of nutrient media, the characteristics of bacteria, the kind and effects, isolating and keeping pure cultures, microscopical preparations, the study of bacteria found in soil, in water, and in air; study of pathogenic forms and their relation to disease. One lecture and six hours laboratory, first term

Required: Chemistry 1, Biology 1.

5. *General Zoology*.....3

A general course in Invertebrate and Vetebrate Morphology. Attention will be given to the fundamental facts of zoological science, and the laws of development, heredity, variation, correlation, etc. In connection with the laboratory work in the course instruction will be given to such students as desire to learn methods of preparing bird skins and mammal skins for laboratory and museum specimens. One recitation and four hours laboratory per week throughout the year. Text-books: Hertwig's Essentials of Zoology; Kingsley's Comparative Anatomy. Reference books: McMurrich's Invertebrate Zoology; Textbook of Zoology (Parker and Haswell); Wiedersheim's Comparative Anatomy of Vertebrates.

6. *Entomology*.....4

Lectures relating to the metamorphosis, anatomy, physiology, and habits of insects. Special importance will be given to beneficial and injurious insects, with remedies for the latter. Laboratory work will consist in the study of typical forms with the aid of the guide. This will be followed with determination of families and practical studies of life histories of insects, and with

methods of collecting, breeding, and preserving specimens. Two lectures and four hours laboratory work per week. Text-books: Comstock's Laboratory Guide; Harris's insects injurious to Vegetation. In all courses in Botany and Zoology, field work, when practicable, will form an important feature of the work.

7. *Mammalian Anatomy*.....5

This course is offered to students intending to study medicine, but is open to any student who has completed Course 1 in Biology. It includes a thorough dissection of one of the higher mammals, *e. g.*, the dog, cat, or rabbit; a short course of instruction in histological and embryological methods of technique to acquaint the student with the principles of Histology and Embryology. Two lectures and six hours laboratory per week throughout the year. Reference books: Gray's Human Anatomy; Reynold's The Vertebrate Skeleton; Marshall's Embryology; Stohr's Histology.

8. *Physiology*.....4

The physiology of foods, digestion, and nutrition; the blood, circulation, and respiratory mechanism; the excretion, especially analysis of urine; functions of brain and spinal cord; physiology of nerve and muscle. Two lectures and four hours laboratory a week, second term.

Required: Chemistry 1. Elementary Physiology.

9. *A Special Course in Nature Study, its Aim, Method, etc., and Systematic Science Teaching will be offered to students who expect to teach.*

One lecture per week throughout the year.

GEOLOGY AND MINERALOGY.

A. H. PURDUE, Professor.

1. *Surface Geology*.....3

(a) Recitations three times a week on the origin of topographic features, with special attention to the development of streams and stream features, followed by (b) a detailed study of the physiography of the United States. Text-books: Russell's Rivers of North America and Geikie's Earth Sculpture, with collateral reading. (This course will probably not be given in 1902-1903.)

2. *General Geology and Continental Evolution*.....3

(a) Structural and Dynamic Geology, recitations and lectures three times a week. Text: Scott's Introduction to Geology, with outside reading.
(b) Continental Evolution. Lectures, with collateral reading, during a part of the second term, on the Evolution of the North American Continent.

3. *Practical Geology*.....1

Field and laboratory work three hours a week throughout the year, with the construction of geologic maps and sections, topographic maps, and relief maps.

4. *Paleontology*.....3

Laboratory work six hours a week throughout the year, on the determination of fossil organisms.

5. *Crystallography and Mineralogy*.....3

(a) Lectures and recitations three hours a week during the first six weeks on the elements of Geometric Crystallography.
(b) Laboratory work (two hours) three times a week following course (a) and extending through the year.

Determination of minerals before the blowpipe, and in the wet way. Text: Determinativc Mineralogy, Brush.

Required of Seniors in Civil Engineering.

6. *Field and Special Courses* 3

Students electing Geology as a major will be expected to spend sufficient time in the field for the careful investigation of local geological problems, and to present acceptable theses on the work done. Special courses will be arranged for those who wish to elect work in addition to what is required.

7. *Economic Geology* 3

Lectures, with collateral reading, on the formation, modes of occurence, uses, and geographic distribution of economic geologic products. Second term. Open to all students who have had Geology 2.

NORMAL COURSE.

JUNIUS JORDAN, Professor.

Section 6974 of the Revised Statutes of the State is as follows: "The State Superintendent of Public Instruction shall have power to grant State certificates, which shall be valid for life, unless revoked, to any person in the State who shall pass a thorough examination in all those branches required for granting county certificates, and also in algebra and geometry, physics, rhetoric, mental philosophy, history, Latin, the Constitution of the United States, and of the State of Arkansas, natural history, and the theory and art of teaching.

This course includes all the branches required for a State certificate in accordance with the law, and leads, to the degree of Licentiate of Instruction (L. I.).

Students who have completed the Normal Course and who wish to continue work for a regular university degree, will be allowed proper credits on the subjects mastered in this department.

Those who wish to take the Normal Course for the L. I. degree simply, may omit mathematics 1 and 2, but they will be required to take all the mathematics in the Preparatory Department.

FRESHMAN YEAR.

	Hours per week.
English 1	3
Latin 1	3
Mathematics 1	3
Biology 1	3
Pedagogics 1, 2, 3, 4	5

SOPHOMORE YEAR.

English 2	3
Mathematics 2	3
History 3, 4	3
Physics 1	3
Pedagogics 5, 6, 7, 8	5

Pedagogy 1 and 3 embrace a three hours' course for entire session; Pedagogy 2 and 4, a two hours' course for the entire session; Pedagogy 5 and 7 embrace a three hours' course for full session; Pedagogy 6 and 8 two hours' for full session. Recitations and lectures in Pedagogy 1, three times a week, and in Pedagogy 2, twice a week. first term.

Pedagogy 3, three times a week, and Pedagogy 4, twice a week, second term. Gordy, Dexter and Garlick, Sharp, Seeley.

Pedagogy 5, three times a week, and Pedagogy 6, twice a week, first term. Hill, Compayre.

Pedagogy 7, three time a week, and Pedagogy 8, twice a week, second term. Barnett, Hinsdale, Harris.

PEDAGOGY.

JUNIUS JORDAN, Professor.

The graduates of the University are filling acceptably many of the best educational positions in the State and the demand now is greater than the supply. The need of professionally trained teachers is actively increasing, and the facilities heretofore afforded at the University have been enlarged so as to meet the necessity. The Normal department has been well equipped with needful devices, apparatus, and library, and the choicest educational literature and reading is daily supplied. The problems of the day are subjects in the regular work of lectures, discussions, and theses. Besides the need of more thorough efficiency in the teaching force in common schools, there is a strenuous demand for superior skill and power in our graded school. The energy of expansion in educational interests, consequent upon the growth of population, wealth, and revenues, is manifested by the increase in the number of special school districts and high schools. It is further noticed in improved buildings, equipments, and appointments. This higher expression of progressive public sentiment insures the demand for professionally trained teachers—those who understand teaching as a science and an art, and who know the history of education and something of its problems and developments. It is not a credit to the State that such efficiency and power has been heretofore sought beyond our borders.

Granting the vast wealth of equipment in Normal schools in the Eastern States and the acuteness of their professional training, yet those who study Pedagogy within the political, civil, and sociological environments of their own State are prepaired to work more effectively for the pupil and for the commonwealth than those educated elsewhere and who are strangers to the problems and conditions that confront us in Arkansas.

The department of Pedagogy was organized by the Board of Trustees to provide the proper course of study. Its objects are:

1. To increase skill and efficiency in organizations, methods, management, and teaching our rural, or ungraded schools.
2. To qualify teachers for the higher grades of work embodied in the studies necessary for State license.
3. To prepare teachers for professional skill in supervision, either as principals or superintendents.
4. To give increased scope and development to our secondary schools.
5. To elevate and maintain in the State a professional spirit and a higher scholastic standard.

The full course of Pedagogics will embrace the following subjects, supplemented by cognate readings, lectures, and discussions.

Methods and Management.
Organization and Teaching.
Psychology as Applied to Education.
Theory and Art in Primary Schools.
School Supervision.
School Architecture, Sanitation, and Hygiene.
History and Science of Education.
Comparative Methods—European and American.

Ancient and Modern Systems Compared.
History of Educational Epochs and Reformers.
Effects on Modern Civilization, Caused by an Improved System of Pedagogy.
Ethics of the Schoolroom and of the Profession.
Ethics—Personal, Social, National.
Physiological—Psychology.
Lectures and Experimental Work in Neurology.
History of Education in the United States.
History of Education in Arkansas.
Comparative Systems in the States.
Arkansas School Laws.
School Laws of the Various States.

DEPARTMENT OF PEDAGOGY.

1. *Elements of Psychology and Pedagogy.*

Three times a week with lectures. Readings: Lives of Pestalozzi and Horace Mann.

2. *Teaching and Organization.*

Methods and Management; twice a week. Readings: King's School Interests and Duties; History of Education in Arkansas.

3. *Applied Psychology.*

Lectures on Pedagogy; three times a week. System and Science of Methods. Practical work with model classes.

4. *History of Education.*

Ancient and Modern Systems Compared; twice a week. Studies in Education: Hinsdale, Harris. Arkansas School Law.

5. *Psychology.*

Psychological Foundations of Education; three times a week. Lectures on Neurology, with experiments

and investigations in the department of Biology. Reading: Boone's History of Education in the United States.

6. *Lectures on Pedagogy.*

Educational Epochs and Reformers; twice a week. Ethics, as to personal and relative rights, and duties. Ethics of the Schoolroom and Professional Ethics; once a week.

7. *Teaching and Organization with Special Reference to Secondary Schools.*

Barnett's School Supervision; three times a week. Architecture, Sanitation, and Hygiene; once a week.

8. *Modern Educational Development.*

European and American systems compared. Effects on modern civilization of the improved standards of Pedagogics. Comparative study of the school laws of the various States; twice a week.

On the completion of the full course in Pedagogics, students will be required to write theses on the Public School System of Arkansas; defects of the school law and how remedied; educational development in the State.

PHILOSOPHY.

JUNIUS JORDAN, Professor.

The course offered in this Department consists of recitations, lectures, and free and full discussions by the members of the class. In connection with a careful examination of the views and opinions of leading thinkers, students are encouraged to study their own mental phenomena and to subject to the test of individual consciousness the various theories

which come under investigation. Due attention is given to the recognized contributions of modern Physiology to Psychology.

As introductory to this part of the subject, the Professor of Biology gives a course of lectures with accompanying laboratory work in Neurology, which all students whose course includes Pedagogy and Psychology are required to attend during a part of the second term in Sophomore Pedagogics, and Junior work for the University degrees.

PSYCHOLOGY.

1. Study, investigation, and discussion of the various mental phenomena involved in intellectual processes. An examination of the various theories of consciousness, as set forth by Grecian, European, and American Philosphers. Text-books: Stout, Davis. Application of principles to Education. Three times a week.

2. *Elements of Ethics.*

Comparative Ethics. The bearing on the moral standard of the theories of Evolution, Sociology, Biology, Economics, and Political Economy. Three times a week. Text-books: Mackenzie, Paulsen.

3. *Logic.*

Text-book: Hyslop. Reference books: Mills, Bain, Hamilton. Twice a week.

3. *History of Philosophy.*

An outline of the Ancient, Mediæval and Modern theories. The history of European morals from Charlemagne to the present time. The development of Ethics in the progress and economics of the national life of the United States. Twice a week. Text-books: Webber, Scwegler. References: Uberweg, Leckey.

Philosophy 1 and 2 embraces a three-hour course for full session; Philosophy 2 and 4, a two-hour course for full session.

MECHANICAL ENGINEERING.

CHAS. E. HOUGHTON, Professor and Superintendent of Mechanic Arts.

B. N. WILSON, Adjunct Professor and Assistant Superintendent of Mechanic Arts.

MACK MARTIN, Assistant Superintendent of Mechanic Arts.

Two courses are offered, a four-year course leading to the degree of B. M. E., and a short course of two or three years, depending on the preparation of the student.

While the major part of a course in Mechanical Engineering necessarily consists of scientific and technical studies, the four years' course provides for instruction in English and the modern languages, and offers electives that may be taken in other than technical subjects.

Besides the mathematical and scientific studies which constitute the necessary preparation for the study of the engineering branches, instruction is given in mechanics, machine design, theory of steam and gas engines, etc. Special attention is given to the practical application of the truths and theories taught in the class room, a large part of the time being devoted to shop work, drawing, and laboratory practice.

Sufficient instruction is given in the theory and use of electrical machinery to enable the student to use it intelligently.

In the second term of the Senior year the student is offered an elective in the branch of mechanical engineering in which he wishes to specialize.

1. *Shop Work*.....Hours as assigned.

   (a) Woodworking. Principles of carpentry and joinery; exercises in wood turning.
   (b) Founding. Green sand molding. Melting and pouring brass and iron.
   (c) Forging. Management of fire; drawing and welding; riveting and tempering; casehardening and annealing.
   (d) Patternmaking. Practice in making patterns; care and use of woodworking machinery.
   (e) Ironworking. Chipping, filing, turning, planing, drilling, grinding; erection of machinery.
   (f) Advanced work in any of the above courses.

2. *Mechanical Drawing.*

   Geometrical drawing; copying machine drawings; working drawing from machine parts; tracing; blue printing. One year, four hours per week. Eight hours per week for short course students.

3. *Machine Design*.....2 and 3

   Kinematics of machinery; design of gear teeth, cams, link motions, etc. Two hours' recitation per week. One hour's recitation; four hours' drawing per week, second term. Text-book: Machine Design, Smith.

4. *Mechanics and Hydraulics*.....4

   Statics and dynamics; strength of materials; hydraulics. Four recitations per week for one year. Text-book: Mechanics of Materials and Hydraulics, Merriman.

4a. *Elementary Mechanics* 3

An elementary course in mechanics and hydraulics.

*5. *Steam Machinery* 3

Elementary thermodynamics; comparison of types of steam engines, boilers, pumps, etc., valve gears. Text-books: Steam Engine, Ewing; Valve Gears, Halsey. Three recitations per week, for one year.

5a. *Steam Engines and Boilers.*

Elementary theory of steam engines and boilers—care and management of same; valve gears, three hours per week one year.

6. *Experimental Engineering* 2

Calibration of engineering instruments, indicators, steam gauges, planimeters, nozzles, weirs, etc.; tests of the materials of construction in tension, torsion, compression, and bending; complete engine and boiler trials. Text-book: Experimental Engineering, Carpenter. Four hours' laboratory work per week.

7. *Steam and Gas Engines* 4

Theory of steam and gas engines; problems in steam engine and boiler design. One recitation, three hours' drawing.

8. *Experimental Engineering* 2

Advanced work in Engineering laboratory; special investigations.

9. *Hydraulic Machinery* 2

A study of the design, construction, and operation of water wheels and pumping machinery. Two recitations per week, second term.

*Courses 5 and 5a may be taken for one term.

10. *Cotton Gins, Compresses, and Oil Machinery* 2

Lectures on the machinery now in use and discussion of improvements. Two hours per week, first term.

11. *Heating and Ventilating; Refrigerating Machinery* 2

Principles of ventilation; the different systems of heating, by steam, hot water, and air; specifications. Comparison of machinery used in different systems; methods of ice making; cold storage. Two lectures per week, second term.

12. *Steam Engineering*..... 4

Mechanical engineering of power plants; selections of machinery for the equipment of power stations; plans and specifications. One lecture and six hours' drawing per week, second term.

13. *Machinery and Mill Work*..... 4

Discussions of the different methods of distributing power in mill work; considerations controlling the design of the power plant; specifications. One hour lecture and six hours' drawing per week, second term.

14. *Railroad Engineering*..... 4

Design and construction of locomotives; repairs for rolling stock; discussion of the problems relating to the mechanical engineering of railroads. One hour lecture and six hours' drawing per week, second term.

Courses 10 to 14, inclusive, are open to Engineering Seniors.

The department reserves the right to withdraw any course not elected by four or more students.

MECHANIC ARTS COURSE.

This course is designed to meet the wants of two classes of students:

First. Those who are not able to spend the time required for the completion of the four years' course.

Second. Those who lack the necessary preparation for admission to collegiate classes, and do not wish to become candidates for a degree.

Special attention is given to instruction in shop work and drawing, sufficient time being given to the former, to enable a student to become familiar with all its branches, and acquire proficiency in some chosen one. The time spent in the drawing room will enable the student to make and understand the machine drawing.

In the last year the technical instruction is designed to give such an elementary knowledge of mechanics, machine design, and steam machinery, as will enable the student to use and care for machinery intelligently. No diploma is awarded, but a certificate of proficiency will be given on the completion of the course.

COURSE REQUIRED FOR CERTIFICATE.

FIRST YEAR.	Hours per week.
Mathematics, second year preparatory	5
English, first or second year preparatory	4
Shop Work	6
SECOND YEAR.	
M. E. 4 a, Mechanics and Hydraulics	3
Physics 1	3
M. E. 2, Mechanical Drawing	4
Shop Work	6
THIRD YEAR.	
M. E. 3 and 5, Machine Design and Steam Machinery	5
M. E. 6, Mechanical Laboratory	2
E. E. 12, Electrical Machinery	3
E. E. 5, Electrical Laboratory	2
Elective	3

COURSE IN MECHANICAL ENGINEERING FOR THE DEGREE OF B. M. E.

FRESHMAN YEAR.	Hours per week.
Mathematics 1 and 2	5
English 1	3
Physics 1	3
Mechanical Drawing, M. E. 2	2
Shop Work	3

SOPHOMORE YEAR.

Mathematics 4 and 5	5
Chemistry 1	3
C. E. 1, first term, and E. E. 2, second term	2
Physics 2 or Modern Language	3
Shop Work	3

JUNIOR YEAR.

Mathematics 6	3
M. E. 5, Steam Machinery	3
M. E. 6, Mechanical Laboratory	2
M. E. 4, Mechanics	4
M. E. 3, and Shop Work	5

SENIOR YEAR.

M. E. 8, Mechanical Laboratory	2
M. E. 7, first term, Steam Engine	4
M. E. 9, second term, Hydraulic Machinery	2
E. E. 12, Electrical Machinery	3
E. E. 5, Electrical Laboratory	2
Elective	7
Thesis, second term	2

All elections to be made subject to the approval of the Professor of Mechanical Engineering.

CIVIL ENGINEERING.

J. J. KNOCH, Professor.

H. M. HUDGINS, Instructor.

The design of this department is to furnish a course of theoretical instruction, accompanied by illustrations and as much of engineering practice as can well be taught in schools. This course will give the student a knowledge of the fundamental principles required to enter intelligently upon the various branches of engineering belonging to this profession.

The special technical studies, which are offered in this course, may be grouped under the heads of Surveying, Applied Mechanics, Road and Railroad Engineering, Hydraulic Engineering, Bridge Engineering, and Sanitary Engineering.

Instruction. The work in Surveying extends over three years. It embraces land surveying, leveling, and United States public land surveys during the Sophomore year; topography, railroad reconnoissance, and location during the Junior year; triangulation and geodesy during the Senior year. Much time is devoted to practice in the field and drafting room, this work being carried on parallel with the class-room work. Each year a party of engineering students go into camp one week for practice in surveying and locating railway lines.

1. *Descriptive Geometry* 2

Recitation and practice, first term. Text-book: Church's Descriptive Geometry.

1a. *Drawing* 2

Selection and care of instruments. Drawing geometrical figures and from models. Two afternoons throughout the year.

2. *Surveying* 3

First, and part of second, term. Care, use, and adjustment of instruments; use of chain, tape, compass, transit, solar attachment, level, sextant, and plane table; land surveying, leveling, contouring, laws, and instructions relating to surveys of the public domain. Text-book: Raymond's.

3. *Field Practice.*

Exercises in land, city, and topographical surveying. Two afternoons throughout the year.

4. *Highways* 1

One hour per week, second term. The location, construction, and maintenance of common, Macadam, and Telford roads; brick, stone, wood, and asphalt pavements for city streets. Text-book: Spaulding's Roads, Streets, and Pavements.

5. *Railroad Engineering* 2

Two hours per week throughout the year. Preliminary surveys and location; transition curves, yards, and turnouts; estimates of earthwork and material used in construction; the economics of railroad location and management. Texts-books: Searle's Field Engineering, and Crandall's Transition Curve and Earthwork Computations, first term; Wellington's Economic Theory of Railway Location. second term.

6. *Field Practice* 2

Location of curves, turnouts, and Y's; measurement of embankments and cuts, and computation of volumes. Four hours a week throughout the year.

7. *Railroad Survey.*

One week, twelve hours per day. Actual field practice in reconnoissance, preliminary survey, and location.

8. *Drawing*..... 2

Lettering titles for maps and drawings. Pen and colored topography. Four hours a week throughout the year.

8. (*a*) *Drawing*..... 2

Lectures and practice two afternoons a week throughout the year. Shades, shadows, and perspective. Topographical and railroad maps from actual surveys; masonry dams, structural details, and working drawings for designs.

9. *Masonry Construction*..... 2

Two hours per week, first term. Use of lime and hydraulic cement mortars; stone and brick masonry foundations; foundations in soft materials on land and under water; cofferdams, cribs, and caissons. Text-book: Baker's Masonry Construction.

10. *Roofs and Bridges*..... 3

Fours hours per week, first term; three hours, second term. Theory of computation of stresses by both analytical and graphic methods; full computations, designs, and bills of material for a roof truss and railroad bridge. Text-books: Merriman and Jacoby's Roofs and Bridges, Parts I, II, and III.

11. *Sanitary Engineering*..... 2

Two hours per week, first term. Calculation and special details of construction of sewers, separate and

combined systems of sewerage; purification of sewerage; municipal and domestic sanitation. Text-book: Baumeister's Cleaning and Sewerage of Cities.

12. *Technical Drawing*.....2

Lectures and practice, four hours per week throughout the year. Right and oblique arches; drawings for computations of Course 10.

13. *Waterworks Engineering*.....3

Three hours per week, second term. Study of systems of water supply; collection, purification, and distribution of water; location of waterworks, with details of estimate of cost, turbines and pumping engines. Text-book: Folwell's Water Supply Engineering.

14. *Engineering Laboratory*.....2

Two hours per week, first term. Test of strength and other properties of materials of construction; tensile and crushing tests of brick, stone, and cement; flow of water through pipes, elbows, valves, and measurement by means of weirs.

15. *Field Practice*.....2

Two hours per week, first and second term. Topographical survey, triangulation, precise leveling, and practical astronomy.

COURSE IN CIVIL ENGINEERING FOR DEGREE OF B. C. E.

FRESHMAN YEAR.	Hours per week.
Mathematics 1, 2	5
Chemistry 1	3
English 1	3
C. E. 8, Lettering	2
C. E. 1 a, Drawing	2

SOPHOMORE YEAR.

Mathematics 4, 5	5
C. E. 2, 3, Surveying	3
English 2, French, German, or Spanish 1	3
Physics 1	3
C. E. 1, Descriptive Geometry, first term	2
C. E. 4, Highway Construction, second term	1
Architectural Drawing, second term	1

JUNIOR YEAR.

Mathematics 6, Calculus	3
M. E. 4, Mechanics and Hydraulics	4
C. E. 5, Railroad Engineering	2
C. E. 6, Field Practice	2
C. E. 8 a, Technical Drawing	2
*Elective	4

SENIOR YEAR.

C. E. 15, Field Practice	2
C. E. 14, Engineering Laboratory, first term	2
C. E. 11, Sanitary Engineering, first term	2
C. E. 12, Technical Drawing	2
C. E. 13, Waterworks Engineering, second term	3
C. E. 9, Masonry Construction, first term	2
C. E. 10, Roofs and Bridges	4 and 3
Geology 5, Blowpipe Analysis, second term	2
*Elective	3
Thesis	

ELECTRICAL ENGINEERING.

W. N. Gladson, Professor.

W. A. Treadway, Instructor.

Two courses of instruction are offered. The four years' course is intended to afford a good general education, and at the same time to ground the

*Electives can only be taken on approval of the Professor.

student so thoroughly in the principles of Electrical Engineering as to furnish a good foundation for the profession.

Theoretical and applied electricity and the mechanics of engineering are naturally the leading subjects.

Theory is amply treated and tested by experiments in well equipped laboratories, thus affording the student a degree of facility in the use of instruments and machines which is acquired only by continued practice. As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of special study. The subject of such study must lie within the field of Electrical Engineering. It must be announced not later than the beginning of the second term of the Senior year, and be approved by the Professor in charge. The completed thesis must be submitted not later than two weeks before commencement day, and one copy must be deposited in the Library as the property of the University.

The short course, of two years, is designed for students lacking time and preparation for the full course, and is intended especially for those who have had some practical experience in engineering. The work is more elementary than in the long course, embracing only the necessary mathematics, which, with physics, electrical engineering, and laboratory work, gives the student sufficient theory, supplemented by practice in the shortest possible time.

This course prepares students for practical work, such as superintending or managing lighting, power, or manufacturing plants. It does not lead to a degree, but a suitable certificate will be given on completion of the work.

1. *Electrical Engineering*.....5

Recitations, lectures, and practice five times a week throughout the year. Installation and operation of electrical machinery; Underwriters' rules; calculations; estimates; specifications, and practical work. Text-book: Management of Dynamos and Motors, by Croker and Wheeler.

Professor Gladson.
Instructor Treadway.

2. *Electrical Measurements*.....2

Recitations and practice twice a week, second term. Text-book: Electrical Measurements by Carhart and Patterson.

Professor Gladson.

3. *Technical Drawing*.....2

Lectures and practice two afternoons a week throughout the year. Working drawings or electrical apparatus; wiring plans designed by student.

Instructor Treadway.

4. *Technical Drawing*.....2

Lectures and practice six hours a week throughout the year; an extension of Course 3, and must be preceded by it. Drawings of circuit and machine, electrical calculations, and mechanical designs of electrical machinery; complete power plants designed by student.

Professor Gladson.

5. *Electrical Laboratory*.....2

One afternoon a week throughout the year. An extended course in magnetic and electrical measurements; current, electro-motive force, and resistance; use and calibration of instruments, voltmeters, and potentiometers; exploration of magnetic fields; dynamo work begun.

Instructor Treadway.

6. *Electrical Laboratory*.....4

Two afternoons a week throughout the year. This is an extension of Course 5, and must be preceded by it. A full experimental course in operating and testing direct and alternate current machines; Photometry transmission, storage, and transformation of electric energy. Special courses given suited to the preparation and object of the student.

Professor Gladson.

7. *Dynamo and Electrical Machinery*.....3

Recitations. Three hours a week throughout the year. Confined chiefly to direct current apparatus, including types of motors, generators, and transformers; design, calculations, construction, testing, and operating. Text-book: Thompson's Dynamo Electric Machinery.

Professor Gladson.

8. *Theory of Alternate Currents*.....2

Recitations three times a week, first term. Text-book: Steinmetz's Theory of Alternating Currents.

Professor Gladson.

9. *Polyphase Electric Currents*.....2

Recitations and lectures three times a week, second term. Text-book: Thompson.

Professor Gladson.

10. *Electric Railways* 2

Recitations and lectures twice a week, second term.

Professor Gladson.

11. *Telephony and Telegraphy* 2

Lectures and recitations twice a week throughout the year. Text-book: Preece's Telephone.

Professor Gladson.

12. *Electrical Machinery* 3

Recitations three times a week on Direct and Alternate Current Dynamos and Motors; their application to light, power, railway, mining, and manufacturing. Text-book: Dynamo Electric Machinery by S. Sheldon.

Instructor Treadway.

COURSE IN ELECTRICAL ENGINEERING FOR THE DEGREE B. E. E.

FRESHMAN YEAR.	Hours per week.
Mathematics 1, 2 (Solid Geometry, Trigonometry, Algebra)	5
English 1 (English Grammar, American Literature)... ...	3
Physics 1 (General Physics)	3
M. E. 2 (Mechanical Drawing).....	2
*M. E. 1 d, b (Shop Work).....	3

SOPHOMORE YEAR.

Mathematics 4, 5 (Determinants, Analytic Geometry and Spherical Trigonometry, Calculus).....	5
Chemistry 2 (General Inorganic Chemistry).....	3
C. E. 1 (Descriptive Geometry) or (Architectural Drawing), first term, and E. E. 2 (Electrical Measurements), second term.....	2
*M. E. 1 c, e (Shop Work)...	3

*Students who have credit for M. E. 1 d, c, in the Preparatory School will be required to take M. E. 1 e, three hours a week for one year only.

One of the following three-hour courses:
Physics 2 (Electricity and Magnetism), English 2 (Rhetoric and English Literature), German 1 (Elementary Course), French 1, (Elementary Course), Spanish 1 (Elementary Course)..... 3

JUNIOR YEAR.

Mathematics 6 (Calculus)..... 3
E. E. 7 (Dynamo Electric Machinery)..... 3
E. E. 5 (Electrical Laboratory)..... 2
E. E. 3 (Technical Drawing)..... 2
M. E. 4 (Mechanics and Hydraulics)..... 4
M. E. 5 (Steam Machinery), second term, and Chemistry 14 (Electro-Chemistry), first term..... 3

SENIOR YEAR.

E. E. 8 (Alternate Current Theory), and E. E. 9. (Polyphase Electric Currents)..... 3
E. E. 6 (Electrical Laboratory)..... 4
E. E. 4 (Technical Drawing)..... 2
E. E. 11 (Telephony and Telegraphy)..... 2
E. E. 10 (Electric Railways) second term..... 2
M. E. 6 (Mechanical Laboratory) first term..... 2
Thesis.....

†SHORT COURSE IN ELECTRICAL ENGINEERING.

FIRST YEAR.	Hours per week.
E. E. 1 (Electrical Engineering).....	5
E. E. 3 (Technical Drawing).....	2
Physics 1 (General Physics).....	3
M. E. 4a (Elementary Mechanics).....	3
*M. E. 1 d, b (Shop Work).....	3

SECOND YEAR.

E. E. 12 (Electrical Machinery).....	3
E. E. 4 (Technical Drawing).....	2
E. E. 11 (Telephony and Telegraphy).....	2

*Students who have credit for M. E. 1 c, d, in the Preparatory School will be required to take M. E. 1 e, three hours a week for one year only.

†Candidates for admission to this course will be required to pass the examinations for admission to the Freshman Class in English and Mathematics only.

E. E. 5 (Electrical Laboratory)..... 2
M. E. 5 (Steam Machinery), and M. E. 6 (Mechanical Laboratory)..... 3
*M. E. 1 c, e (Shop Work)..... 3

AGRICULTURE AND HORTICULTURE.

Upon the satisfactory completion of the regular course in Agriculture the degree of Bachelor of Scientific Agriculture, or Bachelor of Science is conferred. The course in Horticulture also leads to the degree of Bachelor of Science. A two-year course is provided in each department for those students who can not remain to complete the regular course.

The full course in Agriculture and Horticulture is intended to afford a training as broad as any other course of study, and equal in educational value. Practical Agriculture is an art, but in this field as well as in Horticulture, the art is based upon principles derived from a number of sciences.

The course of instruction, therefore, aims throughout to give the student a grasp of these fundamental principles and at the same time furnish opportunity for observing their practical application to the extent of rendering him in large measure independent of mere arbitrary rules of practice. The student is encouraged to discover, plan, and execute for himself, and he is materially aided in

*Students who have credit for M. E. 1 c, d, in the Preparatory School will be required to take M. E. 1 e, three hours a week for one year only.

such efforts by the knowledge, both theoretical and practical, derived from his daily association with specialists in the lines which he is pursuing.

In so far as possible practice in the more important operations and methods is required of students as a supplement to class-room instruction. Each student is expected to acquire a degree of practical skill, to learn the use and care of implements and machinery, and a knowledge of the best methods.

Some of the subjects included in the courses are of value to students in other departments as part of a liberal education.

AGRICULTURE.

C. L. NEWMAN, Professor.

1. *Introduction.*

Definition of scope of subject; relation to science, history, etc.

(*a*) *Soils.*

Origin, classification, properties, relation to climate and crops; drainage; irrigation; hygiene and general management of soils; special management for special purposes.

(*b*) *Farm Crops.*

Farm manures and germ manuring; preparation and culture; food-plants, forage and hay plants, root crops, pastures; textile, oil, and sugar plants; harvesting.

2. (*a*) *Farm Buildings, Machinery, and Tools.*

Construction and management of stables, barns, dairies, silos, piggeries, sheepfolds, poultry houses; farm fences and roads. Management and utility of farm machinery and tools.

(*b*) *Zootechny.*

Breeds and breeding of horses, cattle, sheep, swine, goats, poultry, etc., and their specific and general management; aviculture; pisciculture; insecticides.

3. *Rural Economy.*

Farm rules and management; hired labor; farm accounts; markets and marketing; meteorology.

COURSE IN AGRICULTURE FOR THE DEGREE OF B. S.

	Hours per week.
FRESHMAN.	
Mathematics 1	3
German 1	3
English 1	3
Chemistry 1	3
Biology (Botany) 2	3
SOPHOMORE.	
Mathematics 3	3
German 2	3
English 2	3
Physics 1	3
History or Economics	2
Agriculture 1	3
JUNIOR.	
History or Economics	3
English 4	2
Chemistry, Agricultural	3
Bacteriology and Hygiene	2
Agriculture 2	2
Elective	5

SENIOR YEAR.

English 6	1
Philosophy	3
Horticulture 1	3
Agriculture 3	2
Elective	6

COURSE IN AGRICULTURE FOR THE DEGREE OF B. S. A.

FRESHMAN.	Hours per week.
Mathematics 1	3
English 1	3
Chemistry 1	3
Botany	3
Shop Work	2
Drawing	1

SOPHOMORE.

Mathematics 3	3
English 2	3
Physics 1	3
History or Economics	2
Horticulture 1	3
Agriculture 1	3

JUNIOR.

English 4	2
Chemistry, Agricultural	3
Bacteriology and Hygiene	2
Biology or Geology 1 or 2	3
Agriculture 2	2
Elective	3

SENIOR YEAR

English 6	1
Philosophy	3
Horticulture 2	2
General Entomology	3
Agriculture 3	2
Elective	5

HORTICULTURE.

ERNEST WALKER, Professor.

1. (*a*) *Physiology of Plants.*

A study of the subject from the horticultural standpoint.

(*b*) *The Principles of Plant Breeding.*

Environment, variation, heredity, cross-pollination, selection, improved varieties, evolution of fruits and vegetables.

2. (*a*) *Horticultural Structures and Conveniences.*

Hotbeds, cold frames, pits, greenhouses; materials, construction, greenhouse heating, ventilation, management, implements.

(*b*) *Propagation of Plants.*

The various methods by which plants are multiplied; spores, seed, cuttings, budding, grafting; transplanting.

(*c*) *Vegetable Gardening.*

Studies in the growing and forcing of the principal vegetables adapted to the State, for home use and market; with special attention to methods of marketing.

3. (*a*) *Fruit Culture.*

Orcharding, viticulture, small fruits, with reference to kinds and varieties best adapted to the State; cultivation, marketing, etc.

(*b*) *Vegetable Pathology.*

The commoner plant diseases and insect pests of trees and garden plants; spraying and other methods of control.

(*c*) *Decorative Gardening.*

Lawns, flowers, shrubs, trees adapted to the improvement of the home grounds, school grounds and park. Selection, propagation, arrangement, care.

(*d*) *Forestry.*

A study of the forest trees of the State, and forestry matters from an economic standpoint.

COURSE IN HORTICULTURE FOR THE DEGREE OF B. S.

	Hours per week.
FRESHMAN.	
English 1	3
German 1	3
Chemistry 1	3
Mathematics 1	3
Biology (Botany) 2	3
SOPHOMORE.	
English 2	3
German 2	3
Physics 1	3
Mathematics 3	3
History or Economics 1	2
Horticulture 1	3
JUNIOR.	
English 4	2
Chemistry, Agricultural	3
History or Economics	3
Geology 1	3
Horticulture 2	2
Elective	4
SENIOR YEAR.	
English 6	1
Philosophy	3
Agriculture 1	2
Horticulture 3	2
Elective	8

MILITARY SCIENCE AND TACTICS.

CAPTAIN GEORGE K. SPENCER, U. S. Army.

1. *Practical Work* 3

Three hours per week. In school of the soldier, squad, platoon, company, and battalion, close and extended order; ceremonies of guard mounting, dress parade, inspection and review; camping, guard duty, target practice, laying out field works, and signaling. In this work the cadet officers act as instructors, thus putting into practice the knowledge gained in previous years.

2. *Recitations and Lectures* 1

One hour per week. Infantry Drill Regulations (U. S. Army, Part 1). Manual Guard Duty (U. S. Army).

3. *Recitations and Lectures* 1

One hour per week. Infantry Drill Regulations (U. S. Army, Part 2). Small Arms Firing Regulations (Blunt).

4. *Recitations and Lectures* 1

One hour per week. Military Field Engineering (Beach). Militarv Signaling (United States Army Signal Code).

5. *Recitations and Lectures* 1

One hour per week. Service of Security and Information (Wagner). Military Law (Winthrop).

MUSIC.

A. T. GRABER, Director.
MRS. LAURA ANDERSON, Director Vocal Department.

MUSICAL THEORY.

1. *Harmony.*

The study of tone relations, scales, intervals, the formation and progression of chords, and modulations.

Practical work in the harmonization of musical sentences, and the recognition of chords and progressions by the ear.

2. *Harmony.*

More advanced work in the study of inharmonic tones, suspensions, passing notes, etc. Writing and harmonizing original melodies.

3. *Musical Analysis.*

The phrase, period, the sonata form, polyphonic forms, the fugue, Bach's Inventions, etc.

4. *Musical History.*

History of the development of the Art of Music; its principal epochs and schools, and the representative masters of each. Treated by lectures and recitals.

5. *Counterpoint.*

Different orders of single counterpoint in two, three, four, or more parts; combined counterpoint, exercises, and problems.

6. *General Musical Theory and Sight Reading.*

Courses 3, 4, 6, are open to all students of the University. Courses 1, 2, 5, are open to piano, violin, and voice pupils, and are required for graduation.

PIANO FORTE DEPARTMENT.

A. T. Graber.

1. *Technic.*

Daily exercises based on Mason's Touch and Technic. Sartorio piano method; Enckhausen Melodious Studies; easy pieces.

2. *Technic.*

Daily exercises as above. Rhythmic treatment of scales and arpeggios. Studies selected according to the needs of the pupil, from Bertini, Heller, Biehl,

Braner, Stamaty, Lecouppey, and others. Selections from the standard sonatinas and easier sonatas, pieces by modern composers.

3. *Technic.*

Hannon, Virtuoso-pianist; Studies selected from Hassert; Velocity Studies Preyer Op., 35; Jensen Op., 32; Lecuppey, Le Agility; Bach, Inventions; Selections from Sonatas of Mozart, Haydn, and Beethoven; Mendelssohn, S.W. W., and pieces by the best modern writers.

4. *Technic.*

Philipp, Practical Exercises; Etudes selected according to the needs of the pupil, from Cramer-Buelow; Wolff Op. 26; Nicode; Jensen; Czerny Op. 740; Bach Suites, Partitas; Beethoven Sonatas; Peices by Schumann, Schubert, Chopin, and modern composers.

5. *Technic.*

Philipp, Daily Exercises; Etudes selected from Clementi's Gradus ad Parnassum; Chopin Preludes and Etudes Op. 10 and 25; Bach, Well-Tempered Clavichord. Concertos by Beethoven, Hummel and Mendelssohn; Public Recital of Concert Works.

Pupils finishing the above course will be given a diploma in piano playing.

6. *Post Graduate.*

A post graduate course in piano playing for those wishing to prepare themselves for concert work is offered. The course embraces the technic works of Phillipp; selections from the Etudes and larger works of Chopin; Etudes by Liszt, Rubenstein, and Moszkowski. A study of the larger works of the modern Russian, German, French, and American writers.

VIOLIN AND ORCHESTRAL DEPARTMENT.

A. T. GRABER, Director.

Grade I.

Mazas Method; Schradiek's Technical Exercises; Easy pieces, Scales and Arpeggios in the first position.

Grade II.

Mazas Method; Schradiek's Exercises; Scales and Arpeggios in more difficult keys and introduction of the third position. Pieces and Studies within the first and third positions.

Grade III.

Mazas Etudes Op., 36; Dancla Compositions; Scales and Arpeggios introducing the fifth and seventh positions. Classic and Popular Music within these positions.

Grade IV.

Kreutzer Studies; Scales and Arpeggios through all positions. Sonatas, Haydn, Mozart, Beethoven. Viotti Duets; Classical and Popular Music.

Grade V.

Fiorillo and Rode Studies; Spohr's Duets. Concertos by Viotti Rode, Kruetzer and Spohr. Brilliant Duos with Piano, etc.

Grade VI.

Solo and Ensemble Music by the best Classic and Popular Composers. Modern Concertos and finishing department.

Harmony, Counterpoint and Composition taught according to Richter, Jadassohn, Oscar Paul and other authorities.

Pupils advanced from a lower to a higher grade without loss of time, and are not confined to any particular term or year.

VOICE CULTURE AND SINGING.

1. Control of breath (Diaphragmatic). Exercises for development of sure tone; distinct articulation.

2. Development of mind, body, and voice—co-operatively.

3. Study of intervals; scale building; emphasizing tone imagery; sight reading.

4. As early as practicable the pupil is trained in phrasing. Musical expression is artistically developed in harmony with individuality of the pupil.

5. Exercises used will be those best adapted to the needs of the pupil. Songs of the *best* American, English, German, Italian and French composers used according to the progress of the pupil and a study of operas, and oratories. (All forms of sacred music.)

6. For pupils desiring it, normal classes will be formed and a normal course given for the benefit of those who wish to teach in the public schools.

7. Especial attention given to concerted music: Duetts, trios, quartettes, chorus work and training for membership in Glee Club.

TERMS.

Eighteen weeks, two lessons per week, pianoforte, violin and voice culture, each	$22.50
Harmony in class	5 00
Use of Pianoforte for practice one hour daily	2.50

The above tuition is based upon a term of eighteen weeks and these rates do not apply for a less period. Tuition must be paid to the secretary at the beginning of the term and card presented before taking lessons.

No deductions made for missed lessons.

ELOCUTION, ORATORY.

1. It is the aim of this department to give such a course of instruction and training as will lead to ease, naturalness, and correctness in the

expression of thought. To accomplish this, the special endowments of each student are to be carefully regarded.

2. The term "Expression" as now used comprehends the following subdivisions:

(*a*) *Elocution, or Expression by Means of the Voice.*

(*b*) *Oratory and Public Speaking.*

(*c*) *Reading.*

(*d*) *Pantomime or Gesture—Expression by Means of Body.*

(*e*) *General Culture.*

Training in the following courses will be given:

The Teacher's Course.

Training for thorough understanding and mastery of vocal principles as applied to speaking (and reading).

Technical training for bodily responsiveness (gesture).

Special work for developing harmony between mind, body, and voice. (The ultimate aim, Poise of Being.)

Careful investigation of natural principles underlying true development of ease in expression.

Application of advanced methods in education in teaching expression.

Study of literature as related to expression.

The Public Reader's Course.

Training to develop plasticity of voice.

Study of the principles of Nature and Art in their relation to expression as an aid in awakening artistic instinct.

Study of literature in relation to expression.

Characterization and dramatic work.

The relation of the speaker to the audience.

Oratory or Public Speaking.

Training the mind to keener appreciation of higher truths in all the relations of life.

Systematic and individual training of voice and body to develop ease and naturalness, and to stimulate universal sympathy.

Training for proper action of mind in speaking. Development of ease in speaking before an audience.

Work for ease in extemporaneous speaking.

Work to develop quickness and accuracy in debate.

All training in accord with nature's intention and to overcome mechanical expression.

General Culture Course.

Training for ease and grace of bearing.

Correctness and pleasantness in use of the voice.

Development of taste and artistic instinct.

Technical training for each course is arranged by steps to be mastered in order.

The mastery of each course comprehends the work of three years, beginning with students advanced to the degree in regular University course.

Three certificates of proficiency are awarded:

General Culture.
Teachers.
Public Speakers.

The student completing the full course receives an artistic diploma.

PHYSICAL CULTURE.

It is a well-known principle among educators that correct training is based upon co-ordinate development of body and mind.

The work in this department is to develop and strengthen the pupils normally.

Systematic and careful training is given according to individual needs. The course is adapted from—

Educational—German, Swedish, American.
Aesthetic—Delsarte.

The gymnasium is furnished with modern apparatus.

TEACHERS' NONRESIDENT COURSES.

The University offers special opportunities to all teachers in Arkansas. It will admit them to its regular examinations for admission to the Freshman class, or will send the examination questions to county examiners, who will submit them to teachers under the usual rules and return answers to the University. Teachers who pass the required entrance examinations may then matriculate and enter upon non-resident courses of study under the direction of the University Professors; and upon completion of one term's work in any branch, they will be examined upon said work and credited with it, if it comes up to the University standard.

After finishing three-fourths of the course for a bachelor's degree, such teacher-students may graduate by completing the course as regular resident students.

Non-resident study is pursued under disadvantages, and none but energetic and methodical persons, who are willing to practice much self-denial,

can succeed in such work. Such courses of study are in many respects less thorough than study under regular instruction at the University. Yet thousands of persons who can not attend college regularly are thus educating themselves; and the self-reliant habits of study and investigation acquired by successful work of this kind are of untold value.

Teachers accepting this offer must obtain not less than two credits (two subjects passed for one term, or one subject for two terms), each year; else their names will be dropped from the rolls. Teachers whose vacation occurs during the session of the University may supplement their non-resident study by attending the regular classes.

PREPARATORY SCHOOL.

INSTRUCTORS.

J. W. KUYKENDALL, Principal, Mathematics and Physiology.
G. A. COLE, Mathematics and Bookkeeping.
MRS. E. W. COLE, History, Latin, and Mathematics.
NAOMI J. WILLIAMS, Latin, History, and Geography.
JOBELLE HOLCOMB, Latin and Mathematics.
LINA X. REED, English and History.
MARY A. DAVIS, English and History.
B. N. WILSON, Woodwork, Foundry, and Drawing.
MACK MARTIN, Machinist Work and Forging.
MISS JENNY BOWMAN, Elocution and Physical Culture.
MRS. LAURA ANDERSON, Vocal Music.
A. T. GRABER, Instrumental Music.

Professors in the University assist in the teaching work of the Preparatory School whenever such assistance is needed.

This School is designed: First, to prepare students for admission to the Freshman Class in any course in the University; second, to furnish as good an education as practicable to those who do not wish to pursue an extended course; third, to provide a suitable course for those preparing to teach in the public schools who find it impracticable to take the University Normal Course.

Students seeking to enter the Preparatory School should be thoroughly prepared for examination in the subjects required for admission to the class to which they seek entrance.

REQUIREMENTS FOR ADMISSION TO FIRST YEAR CLASS.

1. *Arithmetic.* Students are examined in the whole of Common School Arithmetic. An accurate knowledge of the Properties of Numbers, Fractions, Measurements, etc., and a good general knowledge of Percentage and its applications are rigidly required.

2. *English Grammar.* The fundamental principles of English Grammar and Composition.

3. *Geography.* The whole of some complete manual of Geography.

4. *Spelling and Writing.* Proficiency in these subjects is tested by the examination papers.

5. *Latin.* Owing to the increase in the requirements for admission to the Freshman class in Latin, which becomes operative in 1904, it has become necessary to make an entrance requirement in Latin for the first year preparatory class. This will consist of the first fifty-four lessons in Collar and Daniell's First Latin Book or the equivalent thereof, and becomes operative at the beginning of the session of 1902-3. Latin is required for admission in Bachelor of Arts, Bachelor of Philosophy, and Normal courses—not in the other courses.

NOTE.—Students desiring to enter the second year class will be examined in the work passed over by the first year class. See page 132. Students entering after the session has begun will be examined also in the work passed over by their class.

Students who hold first grade teachers' licenses and who have had experience in teaching, will be admitted, without examination, to second year class in the subjects covered by the licenses. Other Trades of teachers' licenses and certificates of work done in other schools will be recognized to some extent in classifying students.

COURSES OF STUDY IN THE PREPARATORY SCHOOL.

The Preparatory School consists of two sub-college classes, and students are required to complete sixteen hours' work in the first year class, and seventeen hours' work in the second year class as a condition of promotion to the University Freshman class. A student, having completed the prescribed preparatory work in any subject, may be admitted to the Freshman class therein, provided no preparatory study is omitted in order to take up the same.

Special courses of study are not allowed in the Preparatory School, but students known to be in poor health or having physical defects which interfere with their studies, may be permitted by the Faculty to defer one or more subjects and extend the course over a longer period.

The classification of students, however, is governed by the rule stated under "Classification of Students," page 37. Studies in lower classes have precedence of higher ones. Students can not, therefore, omit studies in the Preparatory School and take up collegiate studies except in such cases as may be allowed by the Faculty under paragraph 3, page 38.

The following courses are offered, the completion of any one of which will entitle the student to enter the Freshman class:

COURSE LEADING TO B. A. AND B. PH. COURSES.

(See Page 62.)

FIRST YEAR CLASS.

	Hours per week.
Arithmetic	2
Algebra	3
English—Grammar	4
History of United States and Arkansas	3
Latin	4

SECOND YEAR CLASS.

Algebra	2
Plane Geometry	4
English—Rhetoric	4
General History	3
Latin	4

COURSE LEADING TO B. S. COURSE. (See Page 62.)

FIRST YEAR CLASS.

	Hours per week.
Arithmetic	2
Algebra	3
English—Grammar	4
History of United States and Arkansas	3
Physical Geography	3
Nature Study	1

SECOND YEAR CLASS.

Algebra	2
Plane Geometry	4
English—Rhetoric	4
General History	3
Physiology	2
Physics	2

COURSE LEADING TO ENGINEERING COURSES.

(See Pages 97, 102, 106.)

FIRST YEAR CLASS.

	Hours per week.
Arithmetic	2
Algebra	3
English—Grammar	4
History of United States and Arkansas	3
Bookkeeping	1
Shop Work	3

SECOND YEAR CLASS.

Algebra	2
Plane Geometry	4
English—Rhetoric	4
General History	3
Civil Government	2
Drawing	2

TEACHERS' COURSE.

This course has been arranged for students who do not desire to take a full course at the University and who wish to qualify themselves to teach in the public schools of this State:

FIRST YEAR CLASS.

	Hours per week
Arithmetic	2
Algebra	3
English—Grammar	4
History of United States and Arkansas	3
Physical Geography	3
Physiology	2

SECOND YEAR CLASS.

Algebra	2
Plane Geometry	4

English—Rhetoric..... 4
General History..... 3
Civil Government..... 2
Pedagogy..... 3

NOTE—Students desiring to prepare for the Normal Course, see page 90, should take the preparatory course leading to the B. Ph. Course.

DETAILED WORK OF COURSES.

FIRST YEAR.

Mathematics, 5.—Higher Arithmetic, text to be selected; Milne's Academic Algebra to Involution.

English, 4.—Maxwell's Advanced Grammar; four original essays per term, corrected and copied; Lamb's Tales from Shakespeare, Guerber's Myths of Greece and Rome; Whittier's Snow Bound.

Parallel Reading.—Longfellow, Courtship of Miles Standish; Cooper, Last of the Mohicans; O'Hara, Bivouac of the Dead; Hawthorne, House of Seven Gables; Irving, Sketch Book; Cooke, Surrey of Eagle's Nest; Pike's "Every Year" and "Isadore;" Bunyan's Pilgrim's Progress; lives of the above authors.

Latin, 4.—Collar and Daniell's First Latin Book, lesson fifty-four to the end of book; D'Ooge's Easy Latin for Sight Reading; Viri Romae; Bennett's Grammar; Bennett's Latin Prose Composition, fifteen lessons.

History, 3.—Shinn's United States History and Shinn's History of Arkansas.

Geography, 3.—Davis' Physical Geography.

Nature Study.—This course consists of studies in general elementary natural science.

Bookkeeping, 1.—Messervey's Bookkeeping.

Woodworking, 4.—Principles of carpentry and joinery; wood turning; cabinet work. Sickel's Exercises in Woodworking.

Forging, 2.—Management of fire; drawing, welding; riveting; tempering.

SECOND YEAR.

Mathematics, 6.—Milne's Academic Algebra, completed; Beman and Smith's Plane Geometry, completed.

English, 4.—Raub's Rhetoric; four essays per term, corrected and copied; Burke, Conciliation with America; Shakespeare, Macbeth; Milton, L'Allegro, Il Penseroso, Comus, and Lycidas; Macaulay, Essay on Milton and Addison.

Parallel Reading.—George Elliot, Silas Marner; Scott, Ivanhoe; Shakespeare, Merchant of Venice, and Julius Cæsar; Coleridge, the Rime of the Ancient Mariner; Tennyson, The Princess; Addison, De Coverley Papers; Goldsmith, Vicar of Wakefield; Carlyle, Essay on Burns; Lowell, Vision of Sir Launfal; lives of the above authors.

Latin, 4.—Four Books of Cæsar, or an equivalent; Bennett's Grammar and Exercise Book.

History, 3.—Barnes' General History.

Physiology, 2—Martin's Human Body.

Physics, 2.—Text to be selected; lectures and written work.

Pedagogy, 3.—Roark's Pedagogy, Gow's Morals and Manners, Life of Pestalozzi, School Interests and Duties, by King, Arkansas School Law.

Civil Government, 2.—McLeary's Civil Government, Arkansas and The Nation, and Johnson's History of American Politics.

Freehand Drawing, 4.—Practice Work; outline drawing from models and machine parts; plan, elevation, and section drawings.

Note.—In the above courses the figure after each subject indicates the number of hours per week.

THE MEDICAL SCHOOL.

LITTLE ROCK, ARK.

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Professor of Clinical Surgery, Dermatology.

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Professor of Diseases of the Genito-Urinary Organs.

ANDERSON WATKINS, M. D.,
Assistant Demonstrator of Anatomy.

WILLIAM A. SNODGRASS, M. D.,
Professor of Anatomy.

SPECIAL CLINICAL LECTURERS.

R. W. LINDSEY, M. D.
W. P. ILLING, M. D.
E. C. WITT, M. D.

F. L. FRENCH, M. D.,
Secretary of Faculty,
Little Rock, Ark.

BOARD OF VISITORS FROM ARKANSAS MEDICAL SOCIETY, 1900-1901.

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N. B. BEAKLEY, M. D

Twenty-Fourth Annual Announcement

OF THE

UNIVERSITY OF ARKANSAS MEDICAL COLLEGE.

The Regular Winter Course of lectures will begin on Thursday, October 9, 1902, and continue six months.

Lectures will be delivered daily during the six days of each week.

The matriculation book will be opened from and after September 1st to students desiring to matriculate early and secure choice of seats.

In making this annual announcement the Faculty feels great satisfaction in referring to the continued success and prosperity of the Medical Department. The cordial indorsement of the Arkansas Medical Society and the generous influence of the medical profession throughout the State are highly appreciated and encourage the Faculty to continue the arduous labors it has so long and zealously maintained.

FOUR YEARS' GRADED COURSE.

First Year. Anatomy, Practical Anatomy, Physiology, Chemistry, Physics, Histology, and Medical Ethics.

Second Year. Anatomy, Practical Anatomy, Physiology, Chemistry, Materia Medica, Pathology, Obstetrics.

Third Year. Materia Medica and Therapeutics. Toxicology, Obstetrics and Diseases of Children, Physical Diagnosis, Diseases of the Eye and Ear, Practice of Medicine, Surgery.

Fourth Year. Review of all branches, Practice of Medicine, Surgery, Dermatology, Gynecology, Bacteriology, Urinology, Venereal Diseases, Diseases of the Nervous System, Medical Jurisprudence.

MATRICULATION.

As required by the rules and regulations of the "Association of American Medical Colleges," students on matriculating are required to present credentials showing that they are matriculates or graduates of recognized colleges of literature, science, or arts, of high schools, academies, normal schools, or equivalent schools, or that they have teachers' certificates.

Graduates and matriculates in Medicine, Dentistry, or Pharmacy, on presenting credentials showing such, are exempt from the entrance examination.

To avoid delay, students entitled to matriculate *without* examination are requested to bring their certificates with them and present them on arrival at the College.

Students not entitled to exemption, as hereinbefore provided, are required to pass an entrance examination, with the following requirements: the writing of an English composition of not less

than 200 words; the translation of easy Latin prose; a knowledge of the elements of Arithmetic or Algebra, and of Elementary Physics.

LOCATION.

The City of Little Rock is conveniently situated in the center of the State, and railroads enter from every direction, making it easily accessible.

It has a population of more than 40,000, and has always been classed as one of the most healthful cities west of the Mississippi River. Few places can boast of better public schools, colleges, and universities than Little Rock. All the eleemosynary institutions of the State are located here. These are the School for the Blind, Deaf Mute Institute, and the Insane Asylum.

MEDICAL SCHOOL BUILDING.

The new structure is an imposing edifice, three stories in height, constructed of brick and admirably arranged for the convenience of both students and instructors.

It has a large lecture hall, a fine amphitheater with chairs, a library, a reading room, a museum, several dissecting rooms, all well lighted and ventilated. In fact, it is designed to be a modern and model medical college building. It is situated on Second and Sherman Streets.

HOSPITALS.

The Logan H. Roots Memorial Hospital.—By the munificence of the late Colonel Logan H. Roots

and the benevolence of his widow, the City of Little Rock is to have an elegant public hospital.

The commodious building is now completed.

The Medical Department of the University is fortunate in having this hospital situated on lots adjoining their own building, thus promising greatly increased clinical facilities.

The St. Vincent's Infirmary—formerly called Little Rock Infirmary—designed solely for the treatment of acute diseases, has a capacity of nearly a hundred beds. This hospital is splendidly equipped and furnished with modern conveniences and improvements, is in the very best sanitary condition, and under the supervision and management of trained nurses, Sisters of Charity.

This magnificent institution just completed, conveniently situated, is the finest and best equipped institution of the kind in the Southwest. The hospital is much enlarged and up-to-date in every respect.

The Pulaski County Hospital, erected at a cost of some $30,000, is a handsome brick structure, well arranged, complete in all its equipments, and and has a capacity of 200 beds.

Accidents from railways, marine patients, and the sick and injured from the city, county, and State, find in these hospitals shelter, food, raiment, and that Christian attention so cheering and comforting in sickness and distress.

The inmates of these different institutions embrace all classes and conditions of people—white,

colored, male, female, adults, and children—and with them are found almost every form of malady except quarantinable diseases, which are otherwise provided for.

"THE ISAAC FOLSOM CLINIC."

This clinic is thus designated in honor of the late Dr. Folsom, and in consideration of his liberal endowment of $20,000.

The daily instruction in this clinic is thoroughly practical, and is attended by a large number of outdoor patients from the city and surrounding country. It embraces a wide range of disease and injuries. More than 6,000 patients attended this clinic last year.

METHODS OF TEACHING.

Instruction will be given by didactic and clinical lectures, practical work in the dissecting room, chemical, and physiological laboratories, and by daily quizzes upon the subject of preceding lectures.

When the subject will admit of it, each branch will be so illustrated by means of diagrams, charts, models, and instruments, as to address the understanding of the student through the medium of sight as well as hearing.

EXPENSES OF LIVING, ETC.

The expenses of living in the City of Little Rock will, of course, vary according to the views and habits of students. Good board, at the present time, including lodging, fuel, and lights, may be had

at a convenient distance from the College, at from $4 to $6 per week, and from $13 to $18 per month.

Students on their arrival are requested to visit the University building, corner Second and Sherman Streets, where a list of parties desiring to board medical students will be found.

Persons desiring further information are requested to address the Secretary of the Faculty.

TERMS.

The fee for a full course of lectures will be:

General Ticket	$50.00
Matriculation Ticket (paid but once)	5.00
Demonstrator's Ticket (for each course)	5.00
Hospital Ticket (each course)	3.00
Graduation Fee	25.00

No variation is made, under any circumstances, from the established fees of the College, they having been placed originally at the very lowest figure commensurate with the interest of both student and College.

For more specific information and catalogue apply to

F. L. FRENCH, M. D.,

Secretary of Medical Faculty,

Little Rock, Ark.

NOTE.—Alumni are requested to inform the Secretary of their present post-office address, and of any change of location, in order that they may have the annual catalogue forwarded to them regularly.

LAW DEPARTMENT.

LITTLE ROCK, ARK.

OFFICERS.

JOHN L. BUCHANAN, LL. D.,
Chancellor.

J. H. CARMICHAEL, LL., B.,
Dean.

THOMAS N. ROBERTSON, LL. B.,
Secretary.

FACULTY.

J. H. CARMICHAEL, LL. B., DEAN,
Contracts, Pleading, and Practice.

JOHN FLETCHER, LL. M.,
Real Property.

WILBUR F. HILL, LL. B.,
Equity Jurisprudence.

GEORGE W. MURPHY, LL. B.,
Law of Evidence.

TOM M. MEHAFFY, LL. B.,
Criminal Law, Practice, and Procedure.

E. W. WINFIELD, LL. B.,
Judgments.

J. F. LOUGHBOROUGH, LL. B.,
Commercial Paper, Domestic Relations.

LEWIS RHOTON, LL. B.,
Law of Torts.

DEADERICK H. CANTRELL, LL. B.,
Corporations.

T. N. ROBERTSON, LL. B.
Agency, Insurance.

T. E. HELM, LL. B.,
Partnership.

LECTURERS.

Ex-Gov. JAMES P. CLARKE, LL. B.
Judge JACOB TRIEBER, LL. B.
MORRIS M. COHN, LL. B.
GEORGE B. ROSE, LL. B.
JAMES H. HARROD, LL. B.

PURPOSE.

It is not the purpose of the Law Department of the University of Arkansas to persuade any person to study law; but the department solicits the attendance of those who have determined to take up the study, either with the view of entering the legal profession or for the practical aid a knowledge of the law will afford them in the successful prosecution of some commercial enterprise. It is to be presumed that every true son of Arkansas, who anticipates enlisting in the profession of the law within the State, has sufficient State pride to select his home institution as the proper place to prepare himself for his chosen profession, when the advantages it affords are equal, and for him, in many important particulars, superior, to those of similar institutions elsewhere. Every lecturer and instruc-

tor in this department is a practicing lawyer, making a comfortable living out of his profession, and has not resorted to the law school work for the purpose of earning a livelihood, but simply for the purpose of maintaining this important department of the State University, to meet the demands of the young men who are to constitute the future lawyers of our State.

COURSE OF INSTRUCTION.

The course of instruction covers a period of two years, consisting of four terms. We deem a shorter period insufficient for the proper preparation of the student of the law for his profession. In the language of a distinguished jurist, "He who is not a good lawyer when he comes to the bar will seldom be one afterwards." Our method of instruction consists of daily recitations upon previously assigned lessons in the text-books, with special lectures to emphasize the conclusions of the author and to enlarge the student's conception of the same. We deem the above system of instruction, with daily recitations largely predominating, superior to either the recitation or lecture system when pursued alone. In addition to the above, students are required to prepare and submit to the professors legal papers in the form of briefs upon the various topics of the text-writers, thus combining the abstract theory of the law with the practical application of the same to the different sets of facts embraced in the various decisions of the courts consulted by

the student while preparing his paper. The course of study for the two years will embrace the subjects named and assigned, as follows:

JUNIOR YEAR.

First Term.—Contracts, Agency, Commercial Paper, Torts, Bailment.

Second Term.—Criminal Law, Evidence, Pleading, Insurance, Partnership.

SENIOR YEAR.

First Term.—Real Property, Equity, Corporations, Domestic Relations, Frauds, and Fraudulent Conveyances.

Second Term.—Real Property, Judgments and Lectures upon Constitutional Limitations, Private and Public International Law, Federal Practice, Bankruptcy, Medical Jurisprudence, Legal Ethics.

The first term of both junior and senior courses begins on the third Monday in September, and ends on the 18th of January following; the second term of each course begins on the 20th of January and ends on the first Friday in June.

ADMISSION.

While we fully appreciate the advantages of a thorough collegiate training in the various academic branches as a preparation for the study of the law, we have not made such acquirement a prerequisite to admission to this department. Applicants will be admitted to take up the studies of the junior course who are possessed of a fair English education, such as may be acquired in our public schools. Students may be admitted to the senior course upon producing sufficient proof of their having given

the necessary time and study to the different subjects of the law, either in another law school or under the directions of a practicing lawyer, but no student will be granted the degree until he has passed a satisfactory examination on all the branches embraced in the full course for the two years.

No student will be permitted to take both the junior and senior courses in a single year, unless at the time of his admission he is a licensed attorney, or has completed in some law school, or carefully read under the directions of a reputable lawyer, as much as two-thirds of the subjects embraced in the junior course of this school or their equivalent in other subjects of the law.

LIST OF TEXT-BOOKS.

Tiedeman on Real Property. Greenleaf on Evidence. Bispham's Principles of Equity. Bishop's New Criminal Law. Anson on Contracts. Mechem on Agency. Mechem's Elements of Partnerships. Tiedeman on Bills and Notes. Cook on Stock and Stockholders. Lawson on Bailments. Hale on Torts. Freeman on Judgments. Rogers on Domestic Relations. Bliss on Code Pleading. Cooley on Constitutional Limitations. Wharton on Conflict of Laws. May on Insurance. Brandenburg on Bankruptcy. Reese on Medical Jurisprudence. Federal Practice and Legal Ethics—Lectures.

MOOT COURTS.

Moot Courts begin with the last term of the Junior Year and continue throughout the course,

and shall be termed the judicial department of the school, and shall embrace all the courts—Justice, Probate, Circuit, and Supreme—all modeled according to the constitutional requirements of our State.

The Supreme Court shall consist of three Judges, a Chief Justice and two associates.

Circuit Court.—The Circuit Court shall consist of one Judge, a Clerk, and a Sheriff, to be elected by the students.

County and Probate Court shall consist of one Judge, a Sheriff, and a Clerk, to be elected by the students.

Justice of the Peace Court shall consist of a member of the Senior Class, who shall be elected by the student body.

These courts shall be under the immediate supervision of the Dean, who will be assisted by the members of the Faculty in compiling statements of facts embracing principles of law pertaining to the respective branches under their instruction, for the use of said courts.

GOAR LYCEUM.

This society is composed of the students of both the Junior and Senior Years, and meets regularly every Wednesday night during the session. The exercises shall consist chiefly of theses and debates embracing subjects legal in their nature. The performance of these exercises is insisted upon by the Faculty, for such practice enables the student to

acquire the invaluable faculty, of learning "to think whilst on his feet," besides giving him an easy manner of address in public speaking.

EXAMINATIONS.

Written examinations are held each term in the presence of a member of the Faculty, upon questions handed the student at the time, and on the merit of their papers students will be graded.

DEGREES.

The degree of Bachelor of Laws will be conferred upon all students who have passed an examination on each of the subjects embraced in the course, and have attained the average standard grade of proficiency.

CLASS HONORS.

Honorable competition is the life of all enterprise; therefore, we confer the following evidences of distinction: Upon the student attaining the highest average grade, shall be conferred the distinction of the first honor man of his class; the one attaining the next highest, the second honor man; and the one making the next highest, the third honor man.

The Faculty authorizes the selection of three orators to deliver orations at the commencement exercises, as follows: The Senior Class, one; the Junior Class, one; and the Goar Lyceum, one.

ADVANTAGES OF LOCATION.

An arrangement is made with the Supreme Court Clerk whereby each student may use the Supreme Court Library, the finest in the South, where almost any book on a legal subject may be found. It contains all the reports from the year books to the 68th Arkansas—about 20,000 volumes—most all the text-books from Coke to Rodgers on Domestic Relations.

Being the capital city the Legislature meets here. The student may, during his course of two years, see one session of the Legislature. He has a chance to see and study our State law machine, study parliamentary rules and practices, and meet representative men from all parts of the State. The acquaintance is well worth the making, and there are other pleasant associations arising from attending a home institution that are invaluable in after life.

We have the Supreme Court, which is in session about nine months in the year. It holds two open sessions a week, and the attendance upon this court is a good school within itself. There is an opportunity offered for the student to hear the ablest lawyers in the State argue cases, and hear the Judges render judgments and deliver opinions.

We have a Federal District Court, and the Circuit Court of Appeals will hold a session here each winter. An opportunity is offered the student to observe the practice and workings of the Federal

Court as well as that of the State. We have two State Circuit Courts in session about six months in the year.

A Chancery Court presided over by one of the ablest chancellors in the country. And the student, while studying equity, will have an opportunity to observe some of its practical workings.

A County and Probate Court and about fourteen justices of the peace.

There is nothing to prevent the student from acquiring all the practical knowledge that he may wish from observation and example.

An able bar, who are all kind and courteous to the student, and willing to aid him in any and every way.

A semi-tropical climate, just the place to spend a winter free from the intense cold, and a city of not sufficient size to lead him into evil associations and practices.

PROFESSIONAL ETHICS.

While endeavoring to impart a knowledge of the fundamental principles of the law, the subject of professional ethics will be given special attention and its demands constantly impressed upon the minds of the students as indispensable to the attainment of an honorable and successful career as a lawyer.

TUITION AND EXPENSES.

Tuition	$50.00 per course of one year.
Tuition	$100 per course of two years.
Board and lodging	$15 to $20 per month.
Text-books, if desired by student	$50 per annum.
Diploma	$5.00

No library or society fees are required of students.

All communications should be addressed to the Secretary.

T. N. ROBERTSON,
Little Rock, Arkansas.

BRANCH NORMAL COLLEGE.

PINE BLUFF, ARK.

FACULTY.

J. C. CORBIN, A. M., Ph. D.,
Principal.

J. C. SMITH, A. B.,
First Assistant.

T. G. CHILDRESS, L. I.,
Second Assistant.

ANNA C. FREEMAN, L. I.,
Third Assistant.

LOUISA M. CORBIN,
Fourth Assistant.

C. F. HOUGHTON, A. B., M. M. E.,
Superintendent.

W. S. HARRIS,
Assistant Superintendent.

E. K. BRALY, B. M. E.,
Machine and Blacksmith Shops.

LORENZO ELLIS,
Engineer.

GENERAL STATEMENT.

The Branch Normal College is a department of the University of Arkansas, established pursuant to an act of the General Assembly of the State of Arkansas, approved April 25, 1873, and has been in operation since September 27, 1875. Its primary object is the training of teachers for efficient services in the colored public schools of the State —the law referred to having been enacted with special reference to the "convenience of the poorer classes." For the purpose of carrying out the intent of the law, tuition is made free to all appointees, the only requirements for admission being suitable age and qualification, and appointment from one of the county judges, and the payment of the entrance fee of $5. Other students pay in addition to the above, $1 per month in advance.

LOCATION, ETC.

The school property consists of a beautiful tract of twenty acres of ground, in the suburbs of Pine Bluff, Jefferson County, Ark., and a few rods from the junction of the Missouri Pacific and the St. Louis & Southwestern railroads. The school building, completed in 1881, and occupied January 30, 1882, is one of the handsomest educational edifices in the State, as well as one of the best, being steam heated, electric lighted, and well ventilated. It contains one large assembly room, four recitation rooms, and cloak room for males and females. The

building is of brick, with slate roof and trimmings of Alabama granite, and cost, with improvements and furniture, about $20,000. The furniture and other equipments are of the best modern style.

The dormitory, a handsome brick building of seventeen rooms, and the Mechanical Department building, are upon the same grounds.

The Normal course of study is intended to be a full equivalent to a regular college course up to and including the Sophomore year, the only difference being the substitution of Pedagogy for Greek and the higher mathematical branches. The college course adds to this the usual studies of the last two years. Nineteen classes have graduated from the institution, and the members are now occupying prominent positions in life. The number of students for the year 1901-1902 was nearly 250.

THE LIBRARY.

The library consists of over 3,500 volumes, embracing many valuable reference books, such as Appleton's Cyclopedia, Lippincott's Gazetteer, Century Dictionary, etc. It also has a fine collection of the works of the standard authors—Shakespeare, Milton, Irving, Cooper, Dickens, Longfellow, Carlyle, Tennyson. The library of the Principal, embracing many valuable text and reference books, including the Encyclopedia Britannica, is also accessible to students. A small collection of minerals, each of which is a typical specimen,

and none of which are duplicates, has been procured. During the past year a valuable supply of apparatus has been added to the educational resources of the institution, consisting of an air pump, electrical machine, standard barometer, batteries, French microscope, X-Ray apparatus, spectroscope, sets of weights and measures, common and metric, etc. The outfit of the Mechanical Department is not surpassed, if equalled in quality, by any in the State.

The reading room has been fitted up in elegant style and supplied with quite a number of valuable newspapers and periodicals, many of which are furnished by their publishers. Among those on file are the *Freeman*, Indianapolis; *Western Appeal*, Minneapolis; *Gazette*, Huntsville; *The Gazette*, Little Rock; *Globe-Democrat* and *Republic*, St. Louis; *The Tyler*, Detroit, Mich.; *Popular Educator*, Boston; *Lippincott's Educational Quarterly*, *American Student*, New York; *Weekly Echo*, Pine Bluff; *National Baptist*, Philadelphia; *Southern Review*, Helena; *American Machinist*, *Scientific American*, *Popular Educator*, *Nation;* the scientific publications of the State of Arkansas and of the United States; etc.

GROUNDS, BUILDINGS, AND EQUIPMENT.

Campus, twenty acres; college building (brick), nine rooms; brick dormitory for girls, twenty rooms; shop building (brick), six rooms;

ironclad storage building, one room; laundry, one room; machinery, value $8,000; library, 3,500 volumes; physical apparatus, $1,500; sewing machines, typewriters, equipment in art needlework department, $500; range and cooking outfit, $300; musical instruments, piano, organs, violoncello, mandolin, flute, guitar, $1,000.

DORMITORY FOR GIRLS AND BOARDING HOUSE.

The dormitory for female students is under the supervision of the Principal and his wife. It is a handsome brick structure, sufficient for the accommodation of thirty or forty students. Board bills are payable monthly in advance, and no deduction is made for loss of time less than one week. Girls staying in the dormitory are required to keep their own rooms and the hall clean, and to assist in turn in the dining room and kitchen. They are expected to furnish their own bed clothing and are held responsible for all damage to furniture in their rooms. They are not to visit each other's rooms, except by invitation from the occupant, and two are expected to occupy one room. They are not allowed to change rooms, nor to visit in town except by permission. The charge for board, fuel, and light thus far has been $8 per month, in advance, and, if possible, that price will be continued. Girls who wish to board elsewhere must obtain permission from the Principal.

DOMESTIC TRAINING, PLAIN NEEDLEWORK, AND ART NEEDLEWORK.

The female students of the institution have daily training in housekeeping, plain sewing, and art needle-work. This department is under the superintendence of Miss Louisa M. Corbin, a graduate of Ann Arbor, Mich. The department is equipped with a sufficient number of Wheeler & Wilson and Singer Sewing Machines and a liberal supply of all necessary accessories. Already the success of the department has been very decided, and it has had many specimens of fine work on exhibition. These students also receive daily instruction in touch typewriting from Professor T. G. Childress.

MECHANICAL DEPARTMENT.

The operations of this department are under the superintendence of Professor C. E. Houghton, Superintendent of Mechanic Arts at Fayetteville, assisted by Professor W. S. Harris, a graduate of the Miller Manual Labor School of Virginia, and Professor E. K. Braly, a graduate of the University of Arkansas.

The original shop building was completed in February, 1892. It is of brick and covers a plot of ground 90 by 70, comprising a wood shop 25 by 86, a blacksmith shop 25 by 50, and a machine shop 36 by 25; a boiler room 20 by 25, and a court 35 by 60 occupying the remaining space.

Wood Shop. Eighteen benches, with complete set of tools for each, a double circular sawing

machine, scroll-saw, band-saw, shaper, carving machine, buzz-planer, 20-inch surface planer, tenoning machine, one mortising machine, one knife grinder, pattern lathe, six turning lathes, and many necessary small tools make up the equipment in this department.

Forge Shop. Sixteen Buffalo down draft forges are in position, the blast being supplied by a blower, and the smoke drawn off by a large exhaust fan. Besides the usual outfits of anvils, hammers, tongs, swedge block, vices, benches, etc., there is a Buffalo punch shear and bar cutter capable of cutting off 1-inch bar iron, ½ by 3-inch strap iron, or of punching a ⅜-inch hole in ⅜-inch iron.

Machine Shop. The equipment consists of a 15-inch crank shaper, a 24 by 24 by 6 foot planer, a 20-inch drill press, a 15-inch by 5 foot turret lathe, an 18-inch by 6 foot engine lathe, a 14-inch by 6 foot engine lathe, a 12 by 5 hand lathe, universal milling machine, cutter and reamer grinder, twist drill grinder, power grindstone, emery grinders, benches, vises, and all small tools necessary in machine shop work.

Heating and Power Plant. This consists of two vertical engines of 12-horsepower each, a 22-horse-power Lewis Gas Engine, two 30-horse-power tubular boilers, and an 80-light Westinghouse dynamo. The piping for feed water is so arranged that the water passes from either pump or injector through a feed water heater to the boilers; and the

exhaust piping is so arranged that the exhaust steam from the engines can be used either to heat the feed water or to heat the shops.

Water Supply. In the court of the shop building is a 4-inch Cook tubular well, which furnishes 1,000 gallons of water per hour, delivering it to a tank thirty feet above ground, holding 8,000 gallons.

Sanitary Provisions. The shops are thoroughly well lighted, ventilated, heated, and drained. Sewer connection is made to all buildings, and the abundant water supply is used to insure cleanliness in wash room and water closet.

The courses in the department are as follows, viz:

(*a*) A course in general shop work, extending over three years, followed by a fourth year's work in one of the shops selected by the student. The design is to enable a young man to choose his trade intelligently and to acquire a sound basis for it.

(*b*) A three-year course in general shop work, followed by a fourth year's work in the management of boilers, engines, and heating systems. This course is intended to train young men for the practical work of foremen or engineers.

(*c*) A course in general shop work, extending over three years, together with class-room work in the theory and practice of teaching, followed by a fourth year's work in handling classes in the shops and in laying out series of practical exercises.

For fuller information respecting this and other departments, reference is made to the catalogue of the Branch Normal College.

GENERAL EXERCISES.

In addition to the regular class exercises prescribed in the course of study, there are regular lessons in vocal music, which are open to all students. The general exercises also include a review of a Sabbath-school lesson, review of the events of the week, calisthenics, music, and drawing. Music upon instruments—the organ, piano, flute, guitar, etc., is extra, but very reasonable in price. There are two literary societies, the Junior and Senior, which hold weekly meetings and afford excellent opportunities for practice in oratory, debate, and composition. It is required that every student shall become a member and attend the meetings of one of the societies.

The length of the vacation allows the advanced students an opportunity to engage in teaching, and a large proportion of their number has done so during the past five years. In nearly all cases they have given satisfaction, and conduct their schools with a fair degree of success. The Normal students have also assisted in the work of the institution itself as a part of their training.

It will be a great advantage to the institution if the various county judges will take a special interest in seeing that their counties are repre-

sented. The forms for appointments and apportionment of beneficiaries are the same as stated in this catalogue. The proper blanks for making the appointments will be furnished, together with all necessary information, on application to the Principal.

J. C. CORBIN, A. M., PH. D.,
Pine Bluff, Ark.

REGISTER OF STUDENTS.

ABBREVIATIONS.—B. A., Bachelor of Arts; B. Ph., Bachelor of Philosophy; B. S., Bachelor of Science; M. E., Mechanical Engineering; E. E., Electrical Engineering; C. E., Civil Engineering.

NOTE.—The names of the students in the Medical and Law Departments at Little Rock, and the Branch Normal College in Pine Bluff are not included in this Register, but are published in the special catalogues of these departments.

GRADUATES.

Name.	Course.	Postoffice.	County.
Blair, J. H.	C. E.	Pittsburg	Penn.
Hudgins, W. H.	C. E.	Fayetteville	Washington
Stubblefield, Demie T.	B. A.	Fayetteville	Washington
Treadway, William A.	E. E.	Little Rock	Pulaski

SENIORS.

Alden, Rathburn	B. A.	Osage Mills	Benton
Babb, Wroten Elmer	B. S.	Fayetteville	Washington
Barton, Richard Bethel	B. Ph.	Mound City	Crittenden
Baxter, John Willard	B. A. & B. S.	Hackett	Sebastian
Beakley, John Dandridge	B. Ph.	Pocahontas	Randolph
Briggs, Oscar Doyle	B. A. & B. Ph.	Garner	White
Brown, Fred Isaac	M. E.	Sweet Home	Pulaski
Buchanan, Herbert Earl	B. A.	Cane Hill	Washington
Clancy, William	C. E.	Fayetteville	Washington
Crozier, Elizabeth Eleanor	B. A.	Dutch Mills	Washington
Ellis, William Yancy	E. E.	Fayetteville	Washington
Galloway, Rowena McCord	B. A.	Fayetteville	Washington
Gibson, Freeman Irby	B. S.	Dardanelle.	Yell
Hayes, George Gordon	E. E.	Newport	Jackson
Lander, Roswell S.	C. E.	Chicago	Illinois
Langford, Bertram William	B. Ph.	Bentonville	Benton
McConnell, John Lorenzo	C. E.	Huntington	Sebastian
Mooring, Dennis Clyde	B. S.	Cotton Plant	Woodruff
Sedwick, Thomas Dunlap	B. A. & B. S.	Fayetteville	Washington
Smith, Carl D.	B. A.	Stephens	Ouachita
Stubblefield, Garfield	C. E.	Fayetteville	Washington
Sutton, Mabel	B. A.	Fayetteville	Washington
Wasson, Alfred Washington	B. A.	Elm Springs	Washington
Wiley, Elizabeth Pearle	B. S.	Fayetteville	Washington

JUNIORS.

Billings, Fred Merritt	C. E.	Marianna	Lee
Blaylock, John Charles	C. E.	Fayetteville	Washington
Brewster, Hugh	B. A.	Cane Hill	Washington

Bryan, Lemuel Berry	C. E.	Fort Smith	Sebastian
Cartwright, William Walter	B. A.	Mountain View	Stone
Cook, LaRue Jean	B. A.	Texarkana	Miller
Curry, Clarence Calvin	C. E.	Fayetteville	Washington
Daniels, Houston T.	C. E.	Little Rock	Pulaski
Davis, Frank Hill	C. E.	Lowell	Benton
Davis, Thomas	E. E.	Forrest City	St. Francis
Droke, Leila Ruth	B. Ph.	Fayetteville	Washington
Ellis, John Robert	E. E.	Fayetteville	Washington
Harris, William Marvin	B. A.	Monticello	Drew
Holt, Fred White	B. A.	Bellefonte	Boone
Honnett, Alphonzo Milton	E. E.	Pine Bluff	Jefferson
Knott, Virgil Proctor	C. E.	Bentonville	Benton
Longino, James Leland	E. E. & M. E.	Magnolia	Columbia
McGehee, Abner	B. A.	Little Rock	Pulaski
Melton, Hattie C.	B. A.	Fayetteville	Washington
Middleton, Robert J.	C E	Fayetteville	Washington
Mitchell, Samuel Alfred	B. Ph.	Fayetteville	Washington
Muller, James Frederick	M. E.	Little Rock	Pulaski
Quarles, Tedie Randolph	M. E.	Fayetteville	Washington
Rife, William Benjamin	B. S. & B. Ph.	Osage Mills	Benton
Ruggles, William Arthur	E. E.	Fayetteville	Washington
Streepy, John Paul	B. A.	Hot Springs	Garland
Taylor, Rupert	B. A.	Jonesboro	Craighead
Vaulx, Susie	B. A.	Fayetteville	Washington

SOPHOMORES.

Abercombie, James Scott	B. A.	Bryant	Saline
Beard, Abner H.	C. E.	Wynne	Cross
Blanchard, Fay H.	B. Ph.	Fayetteville	Washington
Bloom, John Rhine	M. E.	Pine Bluff	Jefferson
Chapman, Johnson	C. E.	Lake Village	Chicot
Chapple, Earle White	E. E.	Little Rock	Pulaski
Cotton, Maurice L.	B. Ph.	Branch	Franklin
Davies, Mary Lou	B. Ph.	Fayetteville	Washington
Droke, Marvin Josephine	B. A.	Fayetteville	Washington
Futrall, Olie	B. A	Marianna	Lee
Gray, Clifton Welch	B. A.	Little Rock	Pulaski
Harding, Arthur McCracken	B. A.	Fayetteville	Washington
Hudgins, Jay Guy	B A.	Fayetteville	Washington
Jackson, Wilburn	M. E.	Cane Hill	Washington
McCrary, Edgar Ware	C. E.	Nashville	Howard
Maguire, Eva Josephine	B. A.	Fayetteville	Washington
McLaughlin, William Heber	C. E.	Little Rock	Pulaski
McMurtrie, Elisha Franklin	C. E.	Rison	Cleveland
Mathes, Edward Paul	B. A.	Jonesboro	Craighead
Milum, Roy Wamon	B. A.	Lead Hill	Boone
Mitchell, Brainerd	Normal	Gillett	Arkansas

Morrow, Hugh Ellis	B. S. A.	Fayetteville	Washington
Oakes, George Cromer	B. A.	Pocahontas	Randolph
Peterson, William James	Normal	Vesta	Franklin
Phillips, Charles Oliver	B. Ph.	Fayetteville	Washington
Pope, Norman Percy	B. A.	Monticello	Drew
Ragland, Henry	C. E.	Fayetteville	Washington
Risser, Thomas Scott	E. E.	Fayetteville	Washington
Rosser, Annie	B. A.	Fayetteville	Washington
Shellenberger, Alice	B. Ph.	Fayetteville	Washington
Stanford, Albert Franklin	C. E.	Fayetteville	Washington
Swearingen, Samuel Conrad	B. Ph.	Lee's Creek	Crawford
Walker, James Walter	B. A.	Hindsville	Madison
Williams, Charles X.	Normal	Chismville	Logan
Womack, Joseph Pitts	Normal	Centerton	Benton
Wood, Charles Fox	C. E.	Paris	Logan
Worthley, Guy	E. E.	Helena	Phillips
Vaulx, Eleanor	B. Ph.	Fayetteville	Washington

FRESHMEN.

Abercrombie, Bertha	B. A.	Pactolus	Benton
Albright, Augustus Garland	B. A.	Jonesboro	Craighead
Austin, Robert Edward Lee	B. Ph.	Fayetteville	Washington
Berry, Fred Hugh	C. E.	Bentonville	Benton
Blakemore, Emma	B. Ph.	Prairie Grove	Washington
Bolinger, Mae	B A.	Lead Hill	Boone
Bowers, Houston Bunion	B. A.	Panola	Lonoke
Brooks, Bishop	E. E.	Horatio	Sevier
Buffington, Carry Bell	B. Ph.	Fayetteville	Washington
Burney, Margaret Sue	B. A.	Green Forest	Carroll
Butler, Ethel	B. Ph.	Prairie Grove	Washington
Buttry, Audie	C. E.	Pea Ridge	Benton
Carter, Edward LeRoy	B. A.	St. Paul	Madison
Caruthers, Neil	B. A.	Fayetteville	Washington
Castleberry, William Lessie	B. A.	Salem	Fulton
Clark, Flora Lockhart	Normal	Mena	Polk
Clegg, Chester B.	C. E.	Siloam Springs	Benton
Cleveland, George	B. E	Fayetteville	Washington
Cole, Mary Elizabeth	B. A.	Prairie Grove	Washington
Conway, Walter Block	B. A.	Washington	Hempstead
Cromwell, Charles W.	C. E.	Cavanaugh	Sebastian
Croom, Cleveland W.	B. A.	Dardanelle	Yell
Curry, Robert Erskin	C. E.	Fayetteville	Washington
Davies, Samuel Green	B. Ph.	Fayetteville	Washington
Davis John Benjamin	B. S.	Chelsea	Ind. Ter
Dickinson, William Emmett	B A.	Horatio	Sevier
Dickinson, Will Dewoody	C. E.	Kingsland	Cleveland
Doxey, Ethel	B. A.	Berryville	Carroll
Dunlap, David Ward	C. E.	Clarksville	Johnson
Ford, Ernest Paul	E. E.	Judsonia	White

Frazier, George Washington	Normal	Sub Rosa	Franklin
Greenoe, John Covert	B. Ph.	Helena	Phillips
Hackett, Sam Bradbury	C. E.	Antlers	Ind. Ter.
Hamilton, Eileen	B. A.	Fayetteville	Washington
Hardin, Mannie	C. E.	Texarkana	Miller
Harkey, Opal Noel	B. S.	Ola	Yell
Hathcoat, Marvin Arthur	B. A.	Bellefonte	Boone
Hipolite, Charles Edward	C. E.	Duvals Bluff	Prairie
Holt, Seaborn James	B. A.	Bellefonte	Boone
Howard, Albert Socrates	B. S.	Ellsworth	Logan
Hurst, George Abner	B. A.	Fayetteville	Washington
Hutcherson, Lillian K	B. A.	Fayetteville	Washington
Jacks, Maston Edwards	B. A.	Marianna	Lee
Jackson, Bruen Overton	B. A.	Hamburg	Ashley
James, John John	B. A.	Mayesville	Benton
Jones, Coulter W.	B. S.	Lono	Grant
Jordan, Grace	B. A.	Fayetteville	Washington
Jordan, Garland Weaver	B. A.	Prescott	Nevada
Kelleam, Edwin Ayers	B. Ph.	Charleston	Franklin
Kelley, Fred E.	C. E.	Texarkana	Miller
Kimbrough, Wilson W.	B. A.	Dutch Mills	Washington
King, Vera	B. Ph.	Fayettevlile	Washington
Kirby, Horace Hogden	B. Ph.	Harrison	Boone
Kitchens, Benton Mackie	B. A.	Paragould	Greene
Kunz, Elmer Huett	B. A.	Fayetteville	Washington
Lary, Spencer T.	B. Ph.	Vilonia	Faulkner
Latta, William Brownlow	B. S.	Hot Springs	Garland
Legate, Roy H.	B. S.	Mena	Polk
McMillan, Della	B. A.	Fayetteville	Washington
McGehee, Benjamin	C. E.	Little Rock	Pulaski
Meiser, John Garyson	B. S.	Paragould	Greene
Moore, Henrietta	B. A.	Fayetteville	Washington
Morrow, Donald B.	E. E.	Booneville	Logan
Neeley, John E.	B. A.	Fayetteville	Washington
Oliver Bessie	B. Ph.	Fayetteville	Washington
Olney, Lee	E. E.	Mena	Polk
Pollard, Will A.	B. A.	Gaither	Boone
Pratt, Darwin Hippolyte,	C. E.	Fayetteville	Washington
Reeves, Claude Myrtle	B. A.	Alma	Crawford
Roberts, K. T	C. E.	Pine Bluff	Jefferson
Rogers, Silas Leslie	B. A.	Riley	Yell
Sadler, William Lloyd	C. E.	Little Rock	Pulaski
Snapp, Walter Lick	B. S.	Bellefonte	Boone
Stapp, George Harold	C. E.	Fayetteville	Washington
Stotts, Charles Hiram	B. A.	Huntsville	Madison
Sullivant, Marue	Normal	Bellville	Yell
Taylor, Robert Pierce	M. E.	Siloam Springs	Benton
Thomas, Bessie Leola	B. A.	Fayetteville	Fayetteville
Thompson, Albert Sidney	Normal	Fayetteville	Washington

Van Valkenburg, Horace Bull	B. Ph.	Warren	Bradley
Vaulx, Gordon	C. E.	Fayetteville	Washington
Williams, Beula Jesse	B. A.	Fayetteville	Washington
Womack, John A	B. A.	Centerton	Benton
Womack, Richard Elwood	B. A.	Centerton	Benton
Womack, Stella	B. A.	Centerton	Benton

SPECIALS.

Name.	Postoffice.	County.
Adams, May Bell	Prairie Grove	Washington
Bradley, Mary Myrtle	Lamar	Johnson
Brown, Emma Myrtle	Fayetteville	Washington
Brown, Owen Rector	Evening Shade	Sharp
Bunch, Myrtle	Dardanelle	Yell
Chitwood, Zena Elizabeth	Dardanelle	Yell
Conway, Charles Mitchell	Washington	Hempstead
Conway, George Taylor	Washington	Hempstead
Craig, James Redding	Bentonville	Benton
Dabney, Frances Mayes	Vicksburg	Mississippi
Dulaney, Arlander D	Winthrop	Little River
Garrett, Marcie McKee	Lake Dick	Jefferson
Goddard, Kate	Fayetteville	Washington
Gregg, Nellie	Fayetteville	Washington
Hill, Hugh B.	Fayetteville	Washington
Holcomb, George R.	Fayetteville	Washington
Jagersfeld, Carl Von	Washington	Hempstead
Knesal, Ada I.	Fayetteville	Washington
Lide, Montros Graham	Camden	Ouachita
Mesler, Rector Duvall	Fayetteville	Washington
Myrick, Chas. E.	Clarendon	Monroe
Newsom, William S.	Wynne	Cross
Parker, William C.	Waldo,	Columbia
Pratt, Fletcher Howard	Fayetteville	Washington
Ramsey, Carlton C.	Camden	Ouachita
Reichardt, Walter F.	Little Rock	Pulaski
Reid, Charles W.	Texarkana	Miller
Rutherford, Thomas E.	Hot Springs	Garland
Stone, Ben Hicks	Fayetteville	Washington
Thomas, William F.	DeQueen	Sevier
Whittenberg, Linnie	Elm Springs	Washington
Williams, Sallie Ethel	Fayetteville	Washington
Wilson, John Rufus	Warren	Bradley
Witte, August C.	Fayetteville	Washington
Wood, Clark	Paris	Logan

ENGINEERING—SHORT COURSE.

Name.	Course.	Postoffice.	County.
Archer, Elmer T	E. E.	Little Rock	Pulaski
Baker, Simon R	M. E.	Fayetteville	Washington

Bickel, Ackert	E. E	Gentry	Benton
Carlisle, Thomas Coleman	M. E	Roxton	Texas
Clark, Rolad Griffith	E. E	Eureka Springs	Carrol
Dunn, William Forbes	E. E	Fayetteville	Washington
Faucette, Carl Schurz	M. E	Stamps	Columbia
Florence, Lucas C	M. E	Booneville	Logan
Henderson, James Ruffin	M. E	Fayetteville	Washington
Jones, Doswell	E. E	Fayetteville	Washington
Jordan, Henry Pope	E. E	Fayetteville	Washington
Lemmon John McConnell	E. E	Cincinnati	Washington
Leverett, Edward Vaulx	M. E	Fayetteville	Washington
Lloyd, Walker W	E. E	Fayetteville	Washington
McAlester, Edward W	E. E	Fayetteville	Washington
Pool, R. Y	E. E	Cincinnati	Washington
Purjy, W. Conery,	M. E	Lake Providence	Louisana
Scott, William Thomas	E. E	Fayetteville	Washington
Tate, John D	E. E	Siloam Springs	Benton
Young, James Rodgers	E. E	Galloway	Pulaski

INSTRUMENTAL MUSIC.

FOURTH YEAR.

Hutcherson, Lillian K.

THIRD YEAR.

Bollinger, Mae
Crawford, Fannie
Gregg, Edna
*Harris, Clara
Lamont, Edna
*Mitchell, Sibyl

SECOND YEAR.

*Connor, Catherine
*Davis, Grace
Droke, Lelia
*Graber, Melba
Hamilton, Eileen
*Lake, Madge
*Livingstone, Minnie
*Mitchell, Ara
*Stone, Allie
Williams, Donna

FIRST YEAR.

*Coffman, Rose
*Cook, Lillie Maud
*Craig, Pearl
*Goddard, Maud
*Mayes, Ruth
Milum, Stella H.
*Oliver, Olie

UNCLASSIFIED.

Adams, May Belle
Brown Emma
*Crenshaw, Edith
*Davis, Maud
Gray, Lelia
Hight, Stella
Maguire, Eva
Melton, Hattie
Moore, Elsie
Neeley, Bessie
Peterson, W. J.
Pickel, Mrs. F. W.
*Smith, Minnie Belle

*Enrolled in Music Department only.

VOCAL MUSIC.

Adams, May Belle
Austin, R. E. L.
*Baum, Leah
Chitwood, Zena
Clark, Flora
Clark, Lura
Cotton, M. L.
Darwin, W M.
Doxey, Ethel
DuLaney, A. D.
Field, W. T.
Hughes, W. G.
Jagersfeld, C. Von
Johnson, Nina M.
Jones, R.
Kagy, C. B.
King, Vera
Legate, R. H.
Lloyd, Ellene
Mitchell, B.
Myrick, C. E.
Oates, C. E.
Peterson, W. J.
Pollard, W. A.
Robinson, D. T.
Rogers, S. W.
Shulz, H. E.
Smith, M. B.
Solomon, H.
Swann, Elizabeth
Swearingen, S. E.
Treadway, W. A.
Wasson, A. W.
*White, May
Wiley, Pearle
Williams, Beulah
Wilson, J. R.
Womack, J. A.
Womack, R. E.
Wood, C.

ELOCUTION, ORATORY, PHYSICAL CULTURE.

ORATORY AND PUBLIC SPEAKING.

Benson, L. V.
Castleberry, W. L.
Cheatham, W. R.
Cotton, M. L.
DuLaney, A. D.
Greenoe, J. C.
Hill, H.
Hughes, W. G.
Hurst, G. A.
Kerlin, R. L.
Key, W. F.
Legate, R. H.
Lewis, J. P.
Meyers, J. C.
Mitchell, B.
Middleton, R. J.
Myrick, C. E.
Robinson, D. T.
Rogers, S. W.
Stotts, C. W.
Swearingen, S. E.
Wasson, A. F.
Williams, C. X.
Wilson, J. R.
Witte, A. C.

ELOCUTION.

Adams, May Belle
Allen, Annie M.
Allen. Lucy
Barton, Maud L.
Field, Ella C.
Goddard, Kate
Hutcherson, Margaret
Key, Mary

Burno, Lorena M.
Butler, Ethel
Cole, Mary E.
Cooper, Addie M.
Crawford, Fannie
Deane, Ruth E.
Doxey, Ethel
Feldt, Louise
Leverette, Blanche
Lloyd, Ellene
Mackay, Lura
McCullough, Marriana
Phillips, Myrtle L.
Robertson, Sadie
Swann, Elizabeth
Swaggerty, Alice
Williams, Beulah

PHYSICAL CULTURE (Men).

Benson, L. V.
Billings, F. M.
Brooks, F.
Chapman, J.
Cotton, M. L.
Cunningham, C. A.
Curry, C. C.
Davis, Tom
Dulaney, A. D.
Ellis, J. R.
Gibson, F. I.
Gray, C. W.
Hathcoat, M. A.
Hill, H.
Hughes, W. G.
Hurst, G.
Jacks, M. E.
Key, W. F.
Legate, R. H.
Lewis, J. P.
McAllister, E. W.
McGehee, Abner
McGehee, Ben
Mesler, R. D.
Middleton, R. J.
Mitchell, B.
Mitchell, S. A.
Myrick, C. E.
Oakes, C. E.
Pollard, W. A.
Reagan, Z. L.
Roberts, K. T.
Robinson, D. T.
Rogers, S. W.
Stapp, G. H.
Streepy, J. P.
Taylor, Rupert
Treadway, W. A.
Wasson, A. W.
Wood, Clark
Wood, C. F.
Wilson, J. R.

PHYSICAL CULTURE (Women).

Abercrombie, Bertha
Adams, May Belle
Barrow, Bertha L.
Butler, Effie
Craig, Bessie
Crawford, Fannie
Crozier, Ruth M.
Doxey, Ethel
Droke, Mary I.
Freeland, Ethel
Galloway, Margaret B.
McCartney, Jessie
McCullough, Marriana
Mackay, Lura
Mitchell, Jay
Moore, Elsie
Neeley, Bessie G.
Neeley, Mary
Oliver, Rachel
Phillips, Myrtle
Read, Alicia
Read, Laura

Gray, Lela
Gregg, Edna
Hudgins, Ella B.
Hutcherson, Margaret
Jones, Ellie E.
Jordan, Grace
King, Vera
Lamont, Edna
Lloyd, Ellene
Reed, Clifton
Robertson, Sadie
Ross, Jewell
Shore, Rena
Smith, Jessie
Stone, Ray
Swaggerty, Alice
Swann, Elizabeth
Whitmore, Willie

PREPARATORY SCHOOL.

ABBREVIATIONS.—A., Arts Course, leading to B. A. and B. Ph. Courses; S., Science Course, leading to B. S. Course; E., Engineering Course, leading to the Mechanical, Civil, and Electrical Engineering Courses; T., Teachers' Course.

SECOND YEAR CLASS.

Name.	Course.	Postoffice.	County.
Allen, Annie May	A	Fayetteville	Washington
Ashby, Robert John	S	Benton	Saline
Austin, Hamilton L.	E	Van Buren	Crawford
Baker, Simon R.	E	Fayetteville	Washington
Ballard, Ben Calvin	A	Durham	Washington
Barrett, Frank Brown	S	Jonesboro	Craighead
Beakley, Burleigh Manuel	A	Pocahontas	Randolph
Beauchamp, John Lee	E	Fayetteville	Washington
Benson, Louis Victor	A	Camden	Ouachita
Blair, Leila Jastine	A	Van Buren	Crawford
Blair, Leora L.	A	Van Buren	Crawford
Boles, Edwin Clifford	E	Fayetteville	Washington
Borders, John Malloy	E	Fayetteville	Washington
Byrne, Lloyd Randolph	E	Luna	Chicot
Cheatham, Wilbur R.	A	Princeton	Dallas
Clark, Lula McD.	A	Mena	Polk
Cochrane, Leroy Adams	E	Gravette	Benton
Coffman, Effie	A	Portia	Lawrence
Combs, Walter	E	Mountain Home	Baxter
Conner, Bertha	A	Fayetteville	Washington
Crawford, Fannie	S	Fayetteville	Washington
Crawford, William Reed	A	Fayetteville	Washington
Crozier, Ruth Margaret	A	Fayetteville	Washington
Culwell, James B.	A	Weston	Texas
Cunningham, Chester Avery	A	Dardanelle	Yell
Dalton, Charles Edward	E	Fayetteville	Washington
Dalton, Mary	A	Fayetteville	Washington
Davis, Barbara Claire	S	Fayetteville	Washington
Davis, Lyta	S	Fayetteville	Washington
Davis, W. Ross	A	Lowell	Benton
Deane, Ruth Elizabeth	A	Fayetteville	Washington
Deane, Sidney E.	E	Fayetteville	Washington
Dearing, William Nelson	A	Willcockson	Newton
Denman, William A.	A	Cincinnati.	Washington
Dickinson, Horace J.	A	Kingsland	Cleveland
Eason, Alcuin Pitt	E	Fayetteville	Washington
Edwards, William E.	A	El Paso	White

Ellis, Thomas C.	S.	Creek	Washington
Fergus, Francis H.	A.	Elm Springs	Washington
Field, Ella Cleveland	S.	Fayetteville	Washington
Florence, Lucas C.	E.	Boonevill[illegible]	Logan
Foreman, Charles Doss	S.	Chelsea	Ind. Ter.
Fraser, DeWitt Clinton	S.	Monette	Craighead
Frasier, Ollie May	S.	Sub Rosa	Franklin
Galloway, Margaret Bell	S.	Fayetteville	Washington
Gardner, Joseph Watt	A.	Salem	Fulton
Garrett, David Franklin	S.	Sutton	Nevada
George, Walter S.	E.	Dardanelle	Yell
Graham, Hercules	A.	Springdale	Washington
Gray, Lela	A.	Fayetteville	Washington
Gregg, Sara Edna	A.	Fayetteville	Washington
Gulley, Nannie Clare	A.	Philadelphia	Izard
Harding, Charles T.	A.	Fayetteville	Washington
Harris, Joseph S.	A.	Monticello	Drew
Harrison, Ralph	A.	Fayetteville	Washington
Harvey, Ben	A.	Douglas	Lincoln
Henderson, Clay Sloan	E.	Imboden	Lawrence
Henderson, Marvin F.	E.	Imboden	Lawrence
Holthoff, Claud H.	S.	Paradise	Drew
Howell, George Lee	S.	Mount Ida	Montgomery
Hughes, Wallace G.	A.	Rock Creek	Pike
Hunt, Harry G.	A.	Walnut Ridge	Lawrence
Ingersoll, William H.	A.	Berryville	Carroll
Johnson, Mabel C.	A.	Fayetteville	Washington
Johnston, James H.	A.	Auvergne	Jackson
Jones, Ralph R.	E.	Fayetteville	Washington
Jordan, Lila	A.	Prescott	Nevada
Justice, Isis B.	A.	Gravette	Benton
Justus, Shelby	A.	Evening Shade	Sharp
Kagy, Clyde Bryan	A.	Van Buren	Crawford
Key, Willett Fleming		Magnolia	Columbia
Leverett, Nina Deane	A.	Fayetteville	Washington
Lewis, Lake	E.	Atkins	Pope
Lewis, John Potts	E.	Atkins	Pope
Lide, James E.	E.	Camden	Ouachita
Little, Emmett D.	S.	Summers	Washington
Lucas, Wilburn Wesley	S.	Wesley	Madison
McCaleb, James Abernathy	A.	Evening Shade	Sharp
McCluer, Lucile Lacy	A.	Boonsboro	Washington
McCray, James Berten	S.	Chickalah	Yell
McKennon, Basil Clement	E.	Clarksville	Johnson
McMurray Harry M.	E.	Luna	Chicot
McCartney, Stella Agnes	A.	Fayetteville	Washington
Mackay, Lura	A.	Fayetteville	Washington
Maguire, Minnie Lee	S.	Fayetteville	Washington
Martin, Guy	E.	Powhatan	Lawrence

Mashburn, Ernest E.	A.	Philadelphia	Izard
Mayes, George Frank	E.	Lowell	Benton
Milum, Della H.	A.	Lead Hill	Boone
Mitchell, Lucian	E.	Fayetteville	Washington
Muller, Eugene M.	S.	Little Rock	Pulaski
Mullins, Thomas C.	A.	Fayetteville	Washington
Neely, Bessie Grace	A.	Fayetteville	Washington
Newkirk, Edna	A.	Lowell	Benton
Nordmeyer, Charles Dudley	A.	Fayetteville	Washington
Oates, Charles E.	A.	Martinville	Conway
Oliver, M. Rachel	A.	Fayetteville	Washington
Payne, Samuel S.	E.	Fayetteville	Washington
Phillips, Roberta Grace	A.	Fayetteville	Washington
Pool, George	E.	Cincinnati	Washington
Pope, Arthur D.	S.	Taylor	Columbia
Purdy, William Conery	E.	Lake Providence	Louisiana
Reagan, Zenas Lytton	A.	Fayetteville	Washington
Reed, Clifton	A.	Fayetteville	Washington
Rector, William H.	A.	Texarkana	Miller
Rhea, William Harris	E.	Fayetteville	Washington
Ross, James Edgar	S.	Fayetteville	Washington
Rowe, Prentiss E.	A.	Greenwood	Sebastian
Rogers, William Fenna	A.	Pottsville	Pope
Schicker, Edward Barnes	E.	Camden	Ouachita
Seamans, Pickney Samuel	E.	Dermott	Chicot
Simmons, Juanita	A.	Fayetteville	Washington
Sims, Leonard B.	E.	Texarkana	Miller
Sivley, George M.	A.	Ellsworth	Logan
Smith, William Howard	A.	Herndon	Craighead
Stanford, James	S.	Fayetteville	Washington
Stone, James Hicks	S.	Fayetteville	Washington
Thompson, Charles E.	A.	College Hill	Columbia
Tillman, Fred Allen	A.	Fayetteville	Washington
Towery, Charles D.	A.	Texarkana	Miller
Trumbo, Estelle May	A.	Fayetteville	Washington
Watkins, George	A.	Mount Ida	Montgomery
Watkins, Robert	A.	Mount Ida	Montgomery
Webb, Charles Wallace	A.	Texarkana	Miller
Whitlow, Charles Birnie	S.	Fayetteville	Washington
Williams, Donna Earnestine	A.	Fayetteville	Washington
Williams, Frederic M.	E.	Marianna	Lee
Womack, William Vance	A.	Centerton	Benton
Wood, Charles R.	E.	Clarksville	Johnson
Wilkinson, D. Homer	E.	Hartford	Sebastian

FIRST YEAR CLASS.

Abercrombie, Clara	A.	Pactolus	Benton
Abercrombie, Steven F.	A.	Bryant	Saline
Allen, Lucy	A.	Fayetteville	Washington

Andrews, Edgar L.	E.	Fayetteville	Washington
Askew, John Henry	E.	Camden	Ouachita
Austell, Tom	E.	Wynne	Cross
Austin, Alfred	E.	Gravette	Benton
Baker, Emmett	E.	Fayetteville	Washington
Baker, Mattie May	S.	Fayetteville	Washington
Banks, Thomas	E.	Douglas	Lincoln
Barnes, J hn J.	A.	Hartford	Sebastian
Barnett, Mamie	S.	Johnson	Washington
Barnett, Pearl	S.	Johnson	Washington
Barnett, Zylphia	S.	Johnson	Washington
Barber, George Washington	S.	De View	Woodruff
Barron, Bertha Lee	A.	Fayetteville	Washington
Barham, Henry W.	E.	Fayetteville	Washington
Barton, Maude L.	A.	Cove	Polk
Beene, Wiley C.	A.	Wooster	Faulkner
Bell, James Walton	E.	Fayetteville	Washington
Blackwood, Dwight	E.	Blytheville	Mississippi
Block, David	S.	Vanndale	Cross
Boles, Ashleigh P.	A.	Fayetteville	Washington
Bowen, Charles A.	E.	Osceola	Mississippi
Blair, Daniel	E.	Decatur	Benton
Brown, Glen W.	E.	Gravette	Benton
Buckner, George L.	E.	Dermott	Chicot
Campbell, Mary Lenore	A.	Fayettville	Washington
Carr, J. Haiden	A.	Osceola	Mississippi
Carter, Hugh R.	E.	Fayetteville	Washington
Cartner, Emmett C.	S.	Fayetteville	Washington
Cathey, Florence L.	A.	Fayetteville	Washington
Cazort, Ralph	S.	Fayetteville	Washington
Chapman, Edward M.	A.	Lake Village	Chicot
Childs, James L.	A.	Lanark	Bradley
Cole, Howard	A.	Crawfordsville	Crittenden
Cole, W. Lee	A.	Alma	Crawford
Cook, Ira	E.	Fayetteville	Washington
Cooper, Addie May	A.	Clover Bend	Lawrence
Cooper, Annie Elizabeth	S.	Fayetteville	Washington
Cox, Mattie	S.	Fayetteville	Washington
Craig, Bessie	A.	De Queen	Sevier
Crawford, Ell	S.	Sulphur City	Washington
Crenshaw, Walter B.	E.	Fayetteville	Wa hington
Crockett, David	E.	Little Rock	Pulaski
Crouch, Leslye	S.	Fayetteville	Washington
Crownover, J. Curtis	A.	Dardanelle	Yell
Dabney, Frederic M.	E.	Vicksburg	Mississippi
Dabney, James C.	E.	Vicksburg	Mississippi
Dacus, Erma	S.	Alpha	Yell
Dacus, Ira	S.	Alpha	Yell
Dacus, Olie Estes	S.	Alpha	Yell

Dedman, Fred Albert	E.	Fayetteville	Washington
Darwin, William Martin	E.	Wickes	Polk
Dickerson, Roy E.	E.	Pacific	Missouri
Dowell, Oliver	E.	Walnut Ridge	Lawrence
Driver, Grover C.	E.	Luxora	Mississippi
Driver, J. J. Garland	E.	Luxora	Mississippi
Droke, Albert Hill	E.	Fayetteville	Washington
Droke, Mary Inez	A.	Fayetteville	Washington
Dunn, Ralph K.	A.	Fayetteville	Washington
Duvall, William	A.	Imboden	Lawrence
Eason, Tom	E.	Fayetteville	Washington
Edington, Grover C.	E.	Dumas	Desha
Edwards, Homer Sylvan	A.	Evening Shade	Sharp
Ellis, Josephine	S.	Fayetteville	Washington
Ellis, Oscar F.	E.	Fayetteville	Washington
Evins, Alexander	E.	Fayetteville	Washington
Evins, Theodore F.	E.	Fayetteville	Washington
Evins, Phebe	S.	Fayetteville	Washington
Farrar, Claire	E.	Springdale	Washington
Feathers, John Edward	E.	Fayetteville	Washington
Feldt, Louise	S.	Saint Louis	Missouri
Fergusson, John P.	A.	Lake Dick	Chicot
Field, William Terry	E.	Little Rock	Pulaski
Finley, David Mills	E.	Hope	Hempstead
Flood, Clarence F.	E.	Fayetteville	Washington
Ford, David Lane	A.	Cecil	Franklin
Forrest, White Avelette	S.	Huntsville	Madison
Freeland, Ethyl	S.	Fayetteville	Washington
Gatling, Richard J.	A.	Bearden	Ouachita
Gerrold, John Walter	S.	Roberts	Miller
Goodrich, James M.	E.	Osceola	Mississippi
Green, Allen Anthony	S.	Chidester	Ouachita
Gregg, Alfred Welch	A.	Fayetteville	Washington
Grooms, Joe	S.	Jonesboro	Craighead
Grundy, Edmund Jones	E.	Mammoth Spring	Fulton
Hall, Leroy Pierce	E.	Austin	Lonoke
Hammett, J. H.	S.	Vanndale	Cross
Harding, Vernon A.	A.	Fayetteville	Washington
Hardy, Dewitt H.	A.	Crawfordsville	Crittenden
Harris, Julia Frances	T.	Durham	Washington
Harrison, Victor Minor	E.	Fayetteville	Washington
Harvey, Frank P.	A.	Lake Village	Chicot
Hatfield, Signa L.	E.	Wagoner	Ind. Ter.
Hendrickson, Roy M.	S.	Martinville	Faulkner
Hervey, Afton	E.	Morrillton	Conway
Hight, Stella	A.	Fayetteville	Washington
Hudgins, Ella B.	A.	Mena	Polk
Hudspeth, Clyde J.	S.	Little Rock	Pulaski
Hudspeth, Hoyle H.	S.	Little Rock	Pulaski

Hughes, Claire Leslie	S.	Fayetteville	Washington
Hughes, John Albert	A.	Elm Springs	Benton
Humphries, Solon E.	A.	North Little Rock	Pulaski
Humphreys, West Garrison	A.	Arkadelphia	Clark
Hunter, Oscar Luther	A.	Branch	Franklin
Inabnett, George R.	S.	Stamps	Lafayette
Johns, Robert Henry	A.	Fayetteville	Washington
Johnson, Freeland Lee	S.	Hatfield	Polk
Johnson, Ina May	S.	Johnson	Washington
Jones, Claud	A.	Pauline	Franklin
Kerlin, Robert Lee	S.	Magnolia	Columbia
Key, Mary M.	A.	Fayetteville	Washington
Killgore, James Ollie	A.	Fayetteville	Washington
King, Ulisses Dean	A.	Fayetteville	Washington
Kunz, Katie Janette	A.	Fayetteville	Washington
Lambeth, Robert F.	A.	New Lewisville	Lafayette
Lamont, Edna	A.	Joplin	Missouri
Less, Alexander M.	E.	Walnut Ridge	Lawrence
Less, Jake	E.	Walnut Ridge	Lawrence
Less, Morris	E.	Walnut Ridge	Lawrence
Leverette, Blanche	A.	Fayetteville	Washington
Leverette, Charles Deane	A.	Fayetteville	Washington
Little, Elbert Luther	S.	Mansfield	Sebastian
Lloyd, Ellene	S.	Fayetteville	Washington
Lowney, Monroe C.	A.	Poteau	Ind. Ter.
Lynch, Ellie May	S.	Fayetteville	Washington
Maguire, William Jefferson	E.	Fayetteville	Washington
Mahoney, Ferry O.	S.	El Dorado	Union
Manahan, Samuel C.	E.	Lenapah	Ind. Ter.
Martin, Herbert	E.	Martinville	Faulkner
Martin, Reg. A.	S.	Vanndale	Cross
McCartney, Jessie Love	A.	Fayetteville	Washington
McClendon, John W.	S.	New Lewisville	Lafayette
McCulloch, Marianna	S.	Fayetteville	Washington
McDermott, Ben	E.	Dermott	Chicot
McWilliams, William	S.	El Dorado	Union
Melton, James Homer	E.	Afton	Ind. Ter.
Mercer, Charles F.	E.	Dermott	Chicot
Merritt, Ona H.	S.	Auburn	Sebastian
Meyers, Joseph C.	S.	Helena	Phillips
Milner, Dufer J.	A.	Milner	Columbia
Mitchell, Jay	S.	Bloomfield	Benton
Mons, Leo Arthur	E.	Little Rock	Pulaski
Morley, Arthur R.	E.	Fayetteville	Washington
Neal, William H.	S.	Cedarville	Crawford
Neelly, Mary Helen	A.	Fayetteville	Washington
Nixon, Joe W.	E.	Morrillton	Conway
Patton, Fred	E.	Dyer	Crawford
Patton, Walter Dyer	E.	Dyer	Crawford

Pearson, John B.	E.	Poplar Grove	Phillips
Petitt, Fannie M.	A.	Poteau	Ind. Ter.
Phillips, Myrtle Lee	A.	Rogers	Benton
Pope, J. G.	E.	Taylor	Columbia
Pruett, John Riley	E.	Denning	Franklin
Quinn, Eddie	E.	Osceola	Mississippi
Ragland, Fannie	A.	Fayetteville	Washington
Read, Alicia Johnston	A.	Fayetteville	Washington
Read, Laura Elizabeth	A.	Fayetteville	Washington
Reed, Kenneth Abram	E.	Gregory	Woodruff
Reed, Mary Pearl	A.	Fayetteville	Washington
Reynolds, Eddie A.	A.	Branch	Franklin
Revel, J. W.	S.	Augusta	Woodruff
Robertson, Sada	A.	Fayetteville	Washington
Robinson, Drue T.	S.	Buckner	Lafayette
Ross, James Harvey	E.	Fayetteville	Washington
Ross, Emma Jewell	A.	Fayetteville	Washington
Russell, George Clinton	A.	Joella	Lafayette
Russell, Samuel Pennington	S.	Joella	Lafayette
Sanders, James Thomas	E.	Fayetteville	Washington
Sedwick, James E.	E.	Fayetteville	Washington
Sawyer, Robert Murrel	A.	McAlester	Ind. Ter.
Shofner, Wallace V.	E.	Wesley	Madison
Shore, Rena B.	A.	Fayetteville	Washington
Shultz, Harry Everett	E.	Fayetteville	Washington
Shultz, Howard Lee	E.	Fayetteville	Washington
Smith, A. Graham	S.	Wesley	Madison
Smith, Hamilton G.	E.	Camden	Ouachita
Smith, Jessie	A.	Fayetteville	Washington
Solomon, Henry	A.	Helena	Phillips
Stanley, Edward Morris	E.	Marianna	Lee
Stockton, Finis Ewing	A.	Cecil	Franklin
Stoller, John Edgar	E.	Webb City	Missouri
Stone, Fannie Rhea	A.	Fayetteville	Washington
Stidham, James Alonzo	S.	Hearndon	Craighead
Summers, Charles C.	E.	Roseville	Logan
Swagerty, Alice	A.	Fayetteville	Washington
Swann, Elizabeth	S.	London	Pope
Tillman, John Walker	A.	Fayetteville	Washington
Treece, Elec Barton	E.	Marshall	Searcy
Trent, Mamie	A.	Fayetteville	Washington
Trigg, John Walker	S.	Texarkana	Miller
Trigg, Thomas Edwards	S.	Texarkana	Miller
Tyson, William Claude	E.	Buena Vista	Ouachita
Vaulx, Huetta	A.	Favetteville	Washington
Veazey, Norman Everett	E.	Dardanelle	Yell
Vinson, Joseph E.	A.	Augusta	Woodruff
Waddell, William Seward	E.	Tyler	Texas
Wade, Lila	A.	Fayetteville	Washington

Walls, Jordan Taylor	E	Maggie	Logan
Waltrip, Joseph B	A	Witteville	Ind. Ter.
Ware, Bert L	A	Greenwood	Sebastian
Watkins, Florence A	S	Fayetteville	Washington
White, Pearl	A	Fayetteville	Washington
Whitteeberg, Sallie	S	Elm Springs	Washington
Whittmore, Willie L	A	Fayetteville	Washington
Wieners, Fred B	E	Fayetteville	Washington
Williams, Hosea Lafanette	A	Fayetteville	Washington
Williams, Joel	S	Wilks	Union
Williams, Roy Welch	E	Fayetteville	Washington
Williams, Sallie Ethel	T	Chismville	Logan
Wilson, J. Melvin	A	Evening Shade	Sharp
Wilson, John Thad	S	Sheridan	Grant
Wilson, Nelle	A	Fayetteville	Washington
Winston, Mary	A	Dermott	Chicot
Yoakum, Henry M	E	Fayetteville	Washington
Yarbrough, Charles	E	Elliott	Ouachita

SUMMARY OF STUDENTS.

COLLEGIATE DEPARTMENT.

Graduates	4	
Seniors	24	
Juniors	28	
Sophomores	38	
Freshmen	85	
Short Course in Engineering	20	
Agriculture, Horticulture, and Special	35	
		234

MUSIC, ELOCUTION, PHYSICAL CULTURE.

Instrumental Music	37	
Vocal Music	40	
Elocution, Oratory, Physical Culture (four classes)	132	
		209

PREPARATORY DEPARTMENT.

Second Year	130	
First Year	217	
		347
		790
Names counted twice		184
Total		606
Medical Department (Little Rock)		220
Law Department (Little Rock)		35
Branch Normal (Pine Bluff)		219
Grand Total		1,080

ALUMNI ASSOCIATION.

The object of this association is to maintain the interest of the graduates in the institution and bring them into a closer relation with the University. To this end all graduates are considered members. The association usually holds a meeting during commencement week.

LIST OF ALUMNI.

George Carl Abernathy, B. A., '00, Law Student, University of Pennsylvania.

Don C. B. Aiken, C. E., '89, Eng. Dep., Johnson Company, Johnstown, Pa.

Edna Allen, B. A., '96, Teacher, Muscogee, I. T.

L. S. Anderson, B. L. L., '84, Clerk in Land Office, Washington, D. C.

J. D. Arbuckle, B. A., '92, County Clerk, Paris, Ark.

C. F. Armistead, B. A., '93, Lieutenant in U. S. A.

L. R. Ash, B. C. E., '93, Draftsman, Waddell & Hedrick, Kansas City.

W. H. Askew, B. A., '97, Lawyer, Magnolia, Ark.

Geo. H. Askew, B. A., '98, Merchant, Fayetteville, Ark.

Nancy E. Askew, B. A. '01, Magnolia, Ark.

W. E. Ayers, B. C. E., '98, Topographical Engineer, U. S. Surveying Corps, Quemados, Cuba.

Ida Barr, B. S., '96, Mrs. R. E. Bagby, St. Joseph, Mo.

C. P. Barnett, B. E. E., '96, Electrical Engineer, Chicago, Ill.

C. O. Bates, B. A., '83, Professor of Chemistry, Coe College, Cedar Rapids, Ia.

J. H. Bates, B. A., '86, Lawyer, Corsicana, Tex.

Mary Beattie, B. A., '96, Teacher, Deaf and Mute School, Michigan.

M. L. Bell, B. A., '98, Pine Bluff, Ark.

J. C. Bell, B. A., '94, Physician, Memphis, Tenn.

Nettie Barnett, B. L., '76, Mrs. C. E. Boles, Fayetteville, Ark.

LIST OF ALUMNI.—Continued.

Blanche Bibb, B. A., '93, Mrs. G. A. Humphreys, New York.
J. W. Black, B. A., '92, Lawyer, McAlester, I. T.
W. J. Blackwell, B. C. E., '92, Engineer, Golden Lake, Ark.
Nora Blakely, B. A., '78, Mrs. H. M. Hudgins, Fayetteville, Ark.
J. H. Blair, B. C. E., '99, Draftsman, Riter & Conley, Allegheny City, Pa.
W. P. Booth,* B. A.
Alice Borden, '77.
J. A. Bostick, B. S., '01, Little Rock, Ark.
Laura D. Botefuhr,* '75, Mrs. G. W. Schulte.
Preston Bowles, B. C. E., '88, Kansas City Southern Railway, Lake Charles, La.
W. E. Boyd, B. A., '96, Lawyer, Cooper, Tex.
Amanda Braly, B. S., '96, Washington, D. C.
Etta Braly, B. S., '96, Mrs. Thos. McColloch, Boonsboro, Ark.
E. H. Braly, B. A., '94.
E. K. Braly, B. M. E., '97, Professor of Mechanics, Branch Normal College, Pine Bluff, Ark.
O. P. Brewer, B. S., '93, Webbers Falls, I. T.
A. M. Brixey, B. A., '96, Vinita, I. T.
Edgar Thurman Brown, C. E. '00, Topographer, C., O. & G. Railway, Little Rock, Ark.
H. S. Brown, M. E., '01, Tyler, Tex.
W. D. Brown, B. A., '82, Physician, Newtonia, Mo.
H. M. Buttler, B. A., '79, Teacher, Arkansas.
J. L. Campbell, B. A., '97, Journalist, Greenwood, Ark.
E. B. Carden,* B. L., '77.
Ella Carnall,* A. M., '81.
A. H. Carrigan, B. A., '82, Lawyer, Wichita Falls, Tex.
Ann E. Carson, '75, Mrs. John Knight, Jonesboro, Ark.
Augusta O. Carson, '75, Mrs. T. W. Cline, Downey, Cal.
C. K. Chanslor, B. A. '82, Lawyer, Grant's Pass, Ore.
W. R. Cherry, B. A., '82.
V. H. Cochrane, B. C. E., '01, Draftsman, Waddell & Hedrick, Kansas City, Mo.
J. T. Collier, B. A., '01, Teacher, DeWitt, Ark.
Sydney Connelly, B. A. '00, Farmer, Poplar Grove, Ark.

*Deceased.

LIST OF ALUMNI.—Continued.

W. A. Crawford, B. A., '01, Teacher, Arkadelphia, Ark.
Jessie Cravens, B. L. L., '83, Mrs. O. Cravens, Neosho, Mo.
A. B. Crozier, B. E. E., '97, Electrical Engineer, Kansas City, Mo.
Wm. N. Crozier, B. A., '88, Missionary to China.
R. N. Cummings, B. A., '98, Medical Student, St. Louis, Mo.
Lula Curry, B. S., '92, Mrs. G. L. Teller, Chicago, Ill.
Mike Danaher, B. A., '88, Lawyer, Little Rock, Ark.
Hadgie B. Davies, B. A., '93, Adjunct Professor of English and Modern Languages, University of Arkansas.
Lila Davies, B. A., '96, Teacher, Texarkana, Ark.
J. H. Davis, B. E. E., '01, Electrical Engineer, Altoona, Pa.
B. F. Davis, B. A. and B. S., '01, Benton County, Ark.
Lizzie P. Davis, '75, Mrs. R. C. Brown, Florence, Ariz.
Ruth Anna Dickinson, B. A., '00, Teacher, Little Rock, Ark.
Thomas Tiller Dickinson, B. A., '00, Law Student, Little Rock, Ark.
W. E. Dixon, B. A., '88, Teacher, Waldo, Ark.
C. H. Drake, B. C. E., '91, and C. E., '94, Engineer, Helena, Ark.
N. F. Drake, B. C. E., Professor of Geology and Mining, Imperial University, Tien-tsin, China.
C. J. Drees, B. E. E., '96, Edison Electric Company, Little Rock, Ark.
G. W. Droke, A. M., '80, Professor of Mathematics, University of Arkansas.
W. H. Duncan, B. L. L., '84, Lawyer, Conway, Ark.
Mallie Dyer, B. A., '94, Professor of English and German, Florida State College, Tallahassee, Fla.
Clara Earle, B. A., '96, Instructor in Cumberland Presbyterian College, Clarksville, Ark.
W. L. Edmiston,* B. L. L., '84.
Amanda A. Eld, B. A., '98, Teacher, Benton County, Ark.
George W. Eld, M. E., '00, Engineer with Armour Packing Company, St. Joseph, Mo.
C. J. Eld, B. C. E., '96, Assistant City Engineer, St. Joseph, Mo.

*Deceased.

LIST OF ALUMNI.—Continued.

F. W. Ellis, B. A., '81, Lieutenant, U. S. Army, Fayetteville, Ark.
W. W. England, B. A., '83.
C. R. Fillmore,* B. S., '99, Teacher, Ada, I. T.
L. F. Fishback, B. S., '89, Lawyer, Wichita Falls, Tex.
J. C. Floyd, B. A., '79, Lawyer, Yellville, Ark.
W. M. Flynn, B. A., '88, Teacher, Kennedale, Tex.
W. A. Freeman, B. A. and B. S., '01, Teacher in Philippine Islands.
J. R. Gannaway, B. A., '90, Lawyer, Member of Legislature, Warren, Ark.
D. A. Gates, B. A., '84, County, Judge Desha County, Arkansas City, Ark.
J. E. Gibson, B. M. E., '94, Civil Engineer, Philadelphia, Pa.
W. P. Goodwin, B. L. L., '84, Lawyer, Warren, Ark.
Belle I. Corton, B. A., '76, Author, Chicago, Ill.
William Dodge Gray, B. A., '00, Principal Public School, Springdale, Ark.
C. D. Greaves, B. A., '83, Lawyer, Hot Springs, Ark.
Alfred W. Gregg,* B. A., '76.
Andrew S. Gregg, B. A., '78, Physician, Fayetteville, Ark.
L. W. Gregg, B. A., '82, Lawyer, Fayetteville, Ark.
C. E. Hall, B. C. E., '93, Civil Engineer, Russellville, Ark.
H. J. Hall, B. A., '94, Editor, Waldron, Ark.
W. J. Hamilton, B. A., '92, Principal of Public Schools, Huntington, Ark.
Agnes Harris, B. A., '76, Mrs. Johnson, Kansas City, Mo.
Sara E. Harris, B. A., '76, Mrs. C. P. Conrad, Oceola, Mo.
Grace Harrison,* B. S., '89, Mrs. T. L. Brown.
J. H. Harrod, B. A., '79, Lawyer, Little Rock, Ark.
J. C. Hart, B. A., '85, Lawyer, Dardanelle, Ark.
J. T. Hawkins, '79, Physician, Mount Holly, Ark.
J. D. Head, B. A., '94, Lawyer, Columbia, Ark.
J. G. Hedrick, B. C. E., '92, Firm of Waddell & Hedrick, Consulting Engineers, Kansas City, Mo.
G. D. Henderson, B. A., '01, Law Student, Little Rock, Ark.
W. Rhodes Hervey, B. S., '90, Lawyer, Santa Anna, Cal.

*Deceased.

LIST OF ALUMNI.—Continued.

E. W. Hillis, B. L. L., '84, Lawyer, Jonesboro, Ark.
J. H. Hobbs,* B. A., '88.
W. D. Hobbs, B. A. and B. S., '01, Teacher in Philippine Islands.
Daniel Hon, B. A., '82, Lawyer, Waldron, Ark.
Cener Holcomb, B. A., '92, Mrs. Dr. Ellis, Springdale, Ark.
Jobelle Holcomb, B. A., '98, Instructor in University of Arkansas, Fayetteville, Ark.
John Lyford Hornor, B. A., '00, Law Student, Helena, Ark.
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C. D. Woolverton, B. L. L., '85, Principal of School, Sheridan, Ark.

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NOTE.—The President will be pleased to receive information as to the address and occupation of those members of the Alumni for whom these data are wanting. The Alumni are especially requested to give notice of any omission or errors in the foregoing list, or any changes made during the ensuing year.

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